WEST Search History

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DATE: Thursday, February 15, 2007

Hide?	<u>Set</u> Name	Query	<u>Hit</u> <u>Count</u>
	DB=PC	GPB, USPT, USOC, EPAB, JPAB, DWPI; PLUR=YES; OP=OR	
	L10	CXCR4 NEAR (antibody or antibodies) AND (vascularization OR neovascularization OR vascularize)	271
	L9	L8 AND (vascularization OR neovascularization OR vascularize)	11
	L8	L6 AND (seven-transmembrane)	42
	L7	L6 AND (leaukocyte-derived)	0
	L6	LESTR AND antibody AND cancer	147
	L5	PF4A AND IL-8 AND antibody AND (vascularization OR neovascularization OR vascularize)	3
	L3	L2 AND antibody	23
	L2	PF4A AND IL-8 AND tumor	23
	L1	PF4A AND IL-8 AND cancer	6

END OF SEARCH HISTORY

SCORE Search Results Details for Application 10785230 and Search Result 20070206 074028 us-10-785-230-1.rai.

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This page gives you Search Results detail for the Application 10785230 and Search Result 20070206 074028 us-10-785-230-1.rai.

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OM protein - protein search, using sw model

February 6, 2007, 14:23:25; Search time 38 Seconds Run on:

(without alignments)

808.237 Million cell updates/sec

US-10-785-230-1 Title:

Perfect score:

1 MEGISIYTSDNYTEEMGSGD......KRGGHSSVSTESESSSFHSS 352 Sequence:

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

650591 seqs, 87530628 residues Searched:

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Issued_Patents_AA:* Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Result		Query				
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2	1830	100.0	352	1	US-08-076-093A-4	Sequence 4, Appli
3	1830	100.0	352	1	US-08-701-265-4	Sequence 4, Appli
· 4	1830	100.0	352	1	US-08-284-586-4	Sequence 4, Appli
5	1830	100.0	352	1	US-08-805-478-4	· Sequence 4, Appli
6	1830	100.0	352	1	US-08-802-627A-4	Sequence 4, Appli
7	1830	100.0	352	1	US-08-801-238-4	Sequence 4, Appli
8	1830	100.0	352	1	US-08-801-228-4	Sequence 4, Appli
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2 US-09-517-605-4 10 1830 100.0 352 Sequence 4, Appli 2 US-09-647-501-2 1830 100.0 352 Sequence 2, Appli Sequence 485, App 1824 99.7 352 US-09-826-509-485 12 1789 97.8 352 1 US-08-450-393A-6 Sequence 6, Appli 13 1789 97.8 352 2 US-08-446-669-6 Sequence 6, Appli 1789 97.8 352 US-09-625-573-6 Sequence 6, Appli 15 5 PCT-US95-00476-6 16 1789 97.8 352 Sequence 6, Appli 17 1752 95.7 337 1 US-08-153-848-46 Sequence 46, Appl 95.7 337 US-09-299-843A-46 Sequence 46, Appl 18 1752 2 US-09-088-337B-46 19 1752 95.7 337 Sequence 46, Appl 337 5 PCT-US93-11153-46 Sequence 46, Appl 20 1752 95.7 US-09-513-999C-5992 Sequence 5992, Ap 614 33.6 116 21 600.5 32.8 360 US-08-875-573-20 Sequence 20, Appl 22 23 600.5 32.8 360 2 US-09-232-878-2 Sequence 2, Appli US-09-045-583-55 Sequence 55, Appl 600.5 32.8 360 24 25 600.5 32.8 360 2 US-09-534-185-55 Sequence 55, Appl 600.5 32.8 360 2 US-08-939-107-34 Sequence 34, Appl 26 600.5 32.8 360 2 US-10-039-659A-16 Sequence 16, Appl 27 28 600.5 32.8 360 US-09-067-447B-34 Sequence 34, Appl US-09-837-446-2 29 600.5 32.8 360 Sequence 2, Appli 360 2 US-09-764-413-20 Sequence 20, Appl 30 600.5 32.8 31 600.5 32.8 360 2 US-09-796-744-17 Sequence 17, Appl 32 600.5 32.8 360 3 US-09-509-165A-34 Sequence 34, Appl 594 US-08-513-974B-330 Sequence 330, App 123 33 32.5 34 588.5 32.2 360 US-08-833-752-10 Sequence 10, Appl 2 US-09-938-719-10 35 588.5 32.2 360 Sequence 10, Appl 360 2 US-09-939-226B-10 Sequence 10, Appl 36 588.5 32:2 37 588.5 32.2 360 2 US-09-938-703B-10 Sequence 10, Appl 2 US-08-709-838-2 38 576.5 31.5 368 Sequence 2, Appli 368 2 US-08-829-839-2 39 576.5 31.5 Sequence 2, Appli 40 576.5 31.5 368 2 US-09-170-496D-20 Sequence 20, Appl 2 US-09-624-594-2 41 576.5 31.5 368 Sequence 2, Appli 2 US-09-607-156-2 42 576.5 31.5 368 Sequence 2, Appli 43 576.5 31.5 368 3 US-09-633-541-2 Sequence 2, Appli US-09-170-496D-174 Sequence 174, App 572.5 31.3 367 US-10-244-089-2 Sequence 2, Appli 569 31.1

ALIGNMENTS

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; Sequence 3, Application US/08202056
 Patent No. 5440021
  GENERAL INFORMATION:
    APPLICANT: Chuntharapai, Anan
     APPLICANT: Hebert, Caroline
     APPLICANT: Kim, Kyung Jin
     APPLICANT: Lee, James
    TITLE OF INVENTION: Antibodies to Human IL-8 Type B Receptor NUMBER OF SEQUENCES: \$
     CORRESPONDENCE ADDRESS:
      ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
      CITY: South San Francisco
      STATE: California
      COUNTRY: USA
      ZIP: 94080
     COMPUTER READABLE FORM:
      MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: patin (Genentech)
     CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/08/202,056
      FILING DATE: 25-FEB-1994
      CLASSIFICATION: 436
     PRIOR APPLICATION DATA:
       APPLICATION NUMBER: 07/677211
       FILING DATE: 29-MAR-1991
     ATTORNEY/AGENT INFORMATION:
      NAME: Love, Richard B.
       REGISTRATION NUMBER: 34,659
       REFERENCE/DOCKET NUMBER: 706P3
     TELECOMMUNICATION INFORMATION:
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     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 3:
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     TYPE: amino acid
     TOPOLOGY: linear
US-08-202-056-3
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 Best Local Similarity 100.0%; Pred. No. 3.8e-143;
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  GENERAL INFORMATION:
    APPLICANT: Chuntharapai, Anan
    APPLICANT: Lee, James
    APPLICANT: Hebert, Caroline
    APPLICANT:
              Jin Kim, K.
    TITLE OF INVENTION: Antibodies to Human PF4A Receptors
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech. Inc.
     STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER:
              IBM PC compatible
     OPERATING SYSTEM: PC-DOS/MS-DOS
     SOFTWARE: WinPatin (Genentech)
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     APPLICATION NUMBER: US/08/076,093A
     FILING DATE: 11-Jun-1993
     CLASSIFICATION: 530
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
      FILING DATE: 19-DEC-1991
    PRIOR APPLICATION DATA:
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      FILING DATE:
                 29-MAR-1991
    ATTORNEY/AGENT INFORMATION:
      NAME: Love, Richard B
      REGISTRATION NUMBER: 34,659
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REFERENCE/DOCKET NUMBER: 706P2

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     TELEX: 910/371-7168
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      TYPE: Amino Acid
     TOPOLOGY: Linear
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    APPLICANT: Chuntharapai, Anan
    APPLICANT: Lee, James
    APPLICANT: Hebert, Caroline
    APPLICANT: Jin Kim, K.
    TITLE OF INVENTION: Antibodies to Human PF4A Receptors
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
      STATE: California
      COUNTRY: USA
      ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
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      FILING DATE: 29-MAR-1991
    ATTORNEY/AGENT INFORMATION:
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NAME: Love, Richard B
      REGISTRATION NUMBER: 34,659
      REFERENCE/DOCKET NUMBER: 706P2
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 415/225-5530
      TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 352 amino acids
      TYPE: Amino Acid
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  GENERAL INFORMATION:
    APPLICANT: Chuntharapai, Anan
    APPLICANT: Lee, James
    APPLICANT: Hebert, Caroline
    APPLICANT: Jin Kim, K.
    TITLE OF INVENTION: Antibodies to Human PF4A Receptors
    NUMBER OF SEQUENCES:
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
      CITY: South San Francisco
      STATE: California
      COUNTRY: USA
      ZIP: 94080
    COMPUTER READABLE FORM:
      MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
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      OPERATING SYSTEM: PC-DOS/MS-DOS
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      FILING DATE: 11-Jun-1993
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      FILING DATE: 19-DEC-1991
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      FILING DATE: 29-MAR-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B
     REGISTRATION NUMBER: 34,659
      REFERENCE/DOCKET NUMBER:
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
     LENGTH: 352 amino acids
     TYPE: Amino Acid
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; Patent No. 5874543
  GENERAL INFORMATION:
    APPLICANT: Chuntharapai, Anan
    APPLICANT: Lee, James
    APPLICANT: Hebert, Caroline
    APPLICANT: Jin Kim, K.
    TITLE OF INVENTION: ANTIBODIES TO PF4A RECEPTOR
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
     COMPUTER: IBM PC compatible
     OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: WinPatin (Genentech)
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     CLASSIFICATION: 530
    PRIOR APPLICATION DATA:
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FILING DATE: 10-AUG-1994

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    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
     REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: P0706P2P1C1
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
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US-08-805-478-4
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US-08-802-627A-4
; Sequence 4, Application US/08802627A
 Patent No. 5892017
 GENERAL INFORMATION:
    APPLICANT: Lee, James
    APPLICANT: Wood, William I.
    TITLE OF INVENTION: NUCLEIC ACID ENCODING PF4A RECEPTOR
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
     STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
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    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
      REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: P0706P2P1D2
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
      TELEFAX: 415/952-9881
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; Patent No. 5919896
  GENERAL INFORMATION:
    APPLICANT: Lee, James
    APPLICANT: Wood, William I.
    TITLE OF INVENTION: PF4A RECEPTOR
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
      STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
     SOFTWARE: WinPatin (Genentech)
    CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/08/801,238
      FILING DATE: 19-Feb-1997
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     FILING DATE: 10-AUG-1994
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/076093
      FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
      FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
      REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: P0706P2P1D1
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
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      TYPE: Amino Acid
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 Patent No. 5922541
  GENERAL INFORMATION:
    APPLICANT: Lee, James
    APPLICANT: Wood, William I.
    TITLE OF INVENTION: METHODS FOR DETECTION AND AMPLIFICATION OF
    TITLE OF INVENTION: PF4A RECEPTOR NUCLEIC ACID
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
      CITY: South San Francisco
      STATE: California
      COUNTRY: USA
      ZIP: 94080
    COMPUTER READABLE FORM:
      MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: WinPatin (Genentech)
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     FILING DATE: 10-AUG-1994
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/076093
     FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
     FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
     REGISTRATION NUMBER: 34,659
      REFERENCE/DOCKET NUMBER: P0706P2P1D3
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
     LENGTH: 352 amino acids
      TYPE: Amino Acid
     TOPOLOGY: Linear
US-08-801-228-4
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  GENERAL INFORMATION:
    APPLICANT: Lee, James
APPLICANT: Wood, WIlliam I.
    TITLE OF INVENTION: PF4A Receptors
    NUMBER OF SEQUENCES:
    CORRESPONDENCE ADDRESS:
    ADDRESSEE: Genentech, Inc.
     STREET: 1 DNA Way
     CITY: South San Francisco
      STATE: California
     COUNTRY: USA
      ZIP: 94080
    COMPUTER READABLE FORM:
      MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER: IBM PC compatible
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     APPLICATION NUMBER: 08/664228
     FILING DATE: 06-JUN-1996
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/076093
     FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
     FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
     REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: P0706P2C2
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
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; GENERAL INFORMATION:
 APPLICANT: Littman, Dan R.
  APPLICANT: Kwon, Douglas S.
  APPLICANT: van Kooyk, Yvette
  APPLICANT: Geijtenbeck, Tneo
  TITLE OF INVENTION: METHODS OF USING A FACILITATOR OF RETROVIRAL ENTRY INTO
  TITLE OF INVENTION: CELLS
  FILE REFERENCE: 1049-1-017
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  CURRENT FILING DATE: 2000-03-02
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RESULT 11
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; Sequence 2, Application US/09647501
 Patent No. 6863887
 GENERAL INFORMATION:
  APPLICANT: No. 6863887thwest Biotherapeutics, Inc.
  APPLICANT: Murphy, Gerald P.
  APPLICANT: Boynton, Alton L.
  APPLICANT: Sehgal, Anil
  TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC APPLICATIONS BASED ON THE
  TITLE OF INVENTION: ROLE OF THE CXCR-4 GENE IN TUMORIGENESIS
  FILE REFERENCE: 20093-000600PC
  CURRENT APPLICATION NUMBER: US/09/647,501
  CURRENT FILING DATE: 2000-09-24
  PRIOR APPLICATION NUMBER: 60/079,916
  PRIOR FILING DATE: 1998-03-30
  PRIOR APPLICATION NUMBER: 60/104.656
  PRIOR FILING DATE: 1998-10-16
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  SOFTWARE: PatentIn Ver. 2.1
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   ORGANISM: Homo sapiens
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; Sequence 485, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
  APPLICANT: Lehmann-Bruinsma, Karin
  APPLICANT: Liaw, Chen W.
  APPLICANT: Lin, I-Lin
  TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
  TITLE OF INVENTION: Protein-Coupled Receptors
  FILE REFERENCE: AREN-207
  CURRENT APPLICATION NUMBER: US/09/826,509
  CURRENT FILING DATE: 2001-04-05
  PRIOR APPLICATION NUMBER: 60/195,747
  PRIOR FILING DATE: 2000-04-07
  PRIOR APPLICATION NUMBER: 09/170,496
  PRIOR FILING DATE: 1998-10-13
  NUMBER OF SEQ ID NOS: 589
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; Patent No. 5707815
  GENERAL INFORMATION:
    APPLICANT: Charo, Israel
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APPLICANT: Coughlin, Shaun
  TITLE OF INVENTION: MAMMALIAN MONOCYTE CHEMOATTRACTANT TITLE OF INVENTION: PROTEIN RECEPTORS
  NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
    ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
    STREET: 5 Palo Alto Square
    CITY: Palo Alto
STATE: California
    COUNTRY: USA
    ZIP: 94306-2155
  COMPUTER READABLE FORM:
    MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: PatentIn Release #1.0, Version #1.25
  CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/08/450,393A
    FILING DATE: May 25, 1995
    CLASSIFICATION: 424
  ATTORNEY/AGENT INFORMATION:
    NAME: Cserr, Luann
    REGISTRATION NUMBER: 31,822
    REFERENCE/DOCKET NUMBER: UCAL-237/02US
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: 415-843-5165
    TELEFAX: 415-8857-0663
    TELEX: 380816CooleyPA
INFORMATION FOR SEQ ID NO: 6:
  SEQUENCE CHARACTERISTICS:
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SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10785230 and Search Result 20070206_074015_us-10-785-230-1.rag.

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SCORE FAQ Comments / Suggestions

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OM protein - protein search, using sw model

Run on: February 6, 2007, 14:07:09; Search time 211 Seconds

(without alignments)

814.792 Million cell updates/sec

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1830	100.0	352	3	AAY52507	Aay52507 Human CXC
5	1830	100.0	352	4	AAE06690	Aae06690 Human neu

1830 100.0 352 4 AAG79088 Aag79088 Amino aci 7 1830 100.0 352 4 AAG80123 Aag80123 Human CXC AA014003 8 1830 100.0 352 Aao14003 Human cys 1830 100.0 ABP52651 9 Abp52651 Human CXC 1830 100.0 352 5 ABG32977 Abg32977 Human CXC 10 11 1830 100.0 352 ABG33065 Abg33065 Human CXC 1830 100.0 352 ABP65183 Abp65183 Hypoxia-r 12 100.0 352 5 13 1830 AAG78471 Aag78471 CXCR4 pro 1830 100.0 352 ABP96794 Abp96794 Human COP 14 Abu03495 Angiogene 15 1830 100.0 352 ABU03495 352 16 1830 100.0 6 ABR58581 Abr58581 Human can 1830 100.0 352 ABP97733 17 Abp97733 Amino aci 1830 100.0 352 ABP81796 Abp81796 Human CXC 18 19 1830 100.0 352 7 ADC98646 Adc98646 Human CXC 20 1830 100.0 352 ADE63147 Ade63147 Human Pro 1830 100.0 352 ADE63143 Ade63143 Human Pro 21 22 1830 100.0 352 7 ADF90878 Adf90878 Human hep 100.0 23 1830 352 AD016837 Ado16837 CXCR4 ami 24 1830 100.0 352 ADN95821 Adn95821 Human BEC 25 1830 100.0 352 8 ADH17079 Adh17079 Human orp 100.0 26 1830 352 ADN04756 Adn04756 Antipsori 1830 100.0 27 352 8 AD029271 Ado29271 Human GPC 28 1830 100.0 352 8 ADP12477 Adp12477 Protein e 29 1830 100.0 352 8 ADP12926 Adp12926 Protein e 100.0 352 30 1830 8 ADP13001 Adp13001 Protein e 31 1830 100.0 352 8 ADO19692 Ado19692 Human PRO 32 1830 100.0 352. 8 ADO19832 Ado19832 Human PRO 33 1830 100.0 352 8 ADO20013 Ado20013 Human PRO 34 1830 100.0 352 8 ADP44055 Adp44055 Human CXC 35 1830 100.0 352 8 ADQ14488 Adq14488 Human che ADQ97944 Adq97944 Human can 100.0 36 1830 352 8 37 1830 100.0 352 8 ADR51540 Adr51540 Human lip 38 1830 100.0 352 8 ADR87598 Adr87598 Human CXC Ady19742 PRO polyp 39 1830 100.0 352 9 ADY19742 40 1830 100.0 352 9 ADY16664 Ady16664 PRO polyp 41 1830 100.0 352 ADY17210 Ady17210 PRO polyp 100.0 352 Ady16155 PRO polyp 42 1830 ADY16155 43 1830 100.0 352 9 AED15419 Aed15419 Equine Pr 44 1830 100.0 352 9 AED76716 Aed76716 CXCR4 rec 352 10 1830 100.0 AEE66168 Aee66168 Human CXC 4.5

ALIGNMENTS .

```
RESULT 1
AAR68812
     AAR68812 standard; protein; 352 AA.
AC.
     AAR68812:
XX
     25-MAR-2003
                  (revised)
DT
     18-JUL-1995 (first entry)
DT
XX
DE
     Human monocyte PF4AR.
XX
     Interleukin-8 receptor; IL-8 receptor; PF4AR;
KW
KW
     platelet factor superfamily receptor; monocyte; chemotactic;
KW
     inflammation; inflammatory disease; arthritis; emphysema; cystic;
KW
     fibrosis; colitis; bronchitis; meningitis; therapeutic.
XX
OS
     Homo sapiens.
XX
     WO9428931-A1.
PN
XX
PD
     22-DEC-1994.
XX
PF
     07-JUN-1994;
                    94WO-US006380.
XX
     11-JUN-1993;
                    93US-00076093.
PR
XX
     (GETH ) GENENTECH INC.
PΑ
XX
     Chuntharapai A, Lee J,
PΙ
                               Hebert C, Kim KJ;
XX
     WPI: 1995-036114/05.
DR
```

```
N-PSDB; AAQ80521.
XX
PT
    Treatment of inflammatory disorders - by administering an antibody
    capable of binding a platelet factor 4 superfamily receptor polypeptide.
XX
PS
    Disclosure; Page 54-56; 83pp; English.
XX
    2 PF4AR members were identified by probing lambda libraries from human
CC
CC
    monoclyte-like cell line HL-60 and human peripheral blood lymphocytes
CC
    using a large fragment of IL-8 receptor DNA (full sequence given in
CC
    AAQ80520). The nucleotide sequences of the 2 PF4ARs are given in AAQ80521
CC
    and AAQ80522, and their respective amino acid sequences in AAR68812 and
CC
    AAR68813. (Updated on 25-MAR-2003 to correct PN field.)
XX
SO
    Sequence 352 AA;
 Query Match
                      100.0%; Score 1830; DB 2; Length 352;
                      100.0%; Pred. No. 2.7e-213;
 Best Local Similarity
                            0; Mismatches
 Matches 352; Conservative
                                                            Gaps
                                             0:
                                                Indels
Qу
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
            Db
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYOKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qу
            61. LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Db
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qy
            121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Db
Qy
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
            Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qγ
            Db
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
         301 LYAFLGAKFKTSAOHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qу
            301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 2
AAR80757
ID
    AAR80757 standard; protein; 352 AA.
    AAR80757;
AC
XX
    25-MAR-2003 (revised)
DT
    26-MAR-1996 (first entry)
DT
XX
DE
    Chemokine superfamily receptor.
XX
KW
    Interleukin; IL-8; inflammation; psoriasis; dermatitis;
    rheumatoid arthritis; inflammatory bowel disease;
    chronic lung inflammation; treatment; antibody; affinity purification;
KW
KW
    detection.
os
    Homo sapiens.
XX
PN
    US5440021-A.
XX
PD
    08-AUG-1995.
XX
    25-FEB-1994;
                 94US-00202056.
PF
XX
PR
    29-MAR-1991;
                 91US-00677211.
XX
    (HEBE/) HEBERT C.
PA
    (CHUN/) CHUNTHARAPAI A.
PA
PA
    (KIMK/) KIM K J.
PΑ
    (LEEJ/) LEE J.
XX
```

```
Chuntharapai A, Kim KJ, Hebert C,
XX
DR
    WPI; 1995-283151/37.
DR
    N-PSDB; AAQ99007.
XX
    New antibodies against interleukin 8 type B receptor - used to treat or
PT
    prevent inflammation, also for detecting receptor expression and
PT
PT
    purificn.
XX
PS
    Example 2; Col 45-48; 62pp; English.
XX
CC
    Antibodies directed against the interleukin-8 receptor B can be used to
CC
    treat or prevent inflammation e.g. psoriasis, dermatitis, rheumatoid
CC
    arthritis and particularly inflammatory bowel disease and chronic lung
CC
    inflammation. When immobilised, these antibodies may be used to detect
    interleukin-8 receptor B expression in cells and tissues and for affinity
CC
CC
    purification of interleukin-8 receptor B from cells. This sequence is an
CC
    additional chemokine superfamily receptor which was identified by probing
    lamda libraries of genomic DNA from a human monocyte-like cell line (L-
CC
CC
    60) and human peripheral blood lymphocytes using a large fragment of the
    interleukin-8 type A receptor DNA (See AAQ99006). (Updated on 25-MAR-2003
    to correct PF field.)
CC
XX
    Sequence 352 AA;
 Query Match
                      100.0%; Score 1830; DB 2; Length 352;
                      100.0%; Pred. No. 2.7e-213;
 Best Local Similarity
 Matches 352; Conservative
                             0; Mismatches
                                             0: Indels
Qу
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
            Db
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qy
            61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qy
            Db
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qν
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
            Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qy
            Db
        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qy
            301 LYAFLGÄKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 3
AAY39993
TD
    AAY39993 standard; protein; 352 AA.
AC
    AAY39993;
XX
DT
    16-DEC-1999 (first entry)
XX
DE
    Human CXCR4 protein sequence.
XX
KW
    CXCR4; human; neovascularisation; inhibitor; solid cancer; therapy;
KW
    tissue repairing agent; vascularisation.
XX
OS
    Homo sapiens.
XX
PN
    WO9948528-A1.
XX
PD
    30-SEP-1999.
XX
PF
    23-MAR-1999;
                 99WO-JP001448.
XX
                 98JP-00095448.
PR
    24-MAR-1998;
```

```
XX
PA
    (CHUS ) CHUGAI SEIYAKU KK.
PA
    (KISH/) KISHIMOTO T.
PΙ
    Kishimoto T, Nagasawa T, Tachibana K;
XX
DR
    WPI; 1999-591042/50.
    N-PSDB; AAZ27610.
DR
XX
PT
    CXCR4-potentiating agents and methods useful for inhibiting
PT
    neovascularization, and treating solid cancers.
XX
PS
    Disclosure; Page 47-48; 63pp; Japanese.
XX
CC
    This sequence is the human CXCR4 protein. The invention relates to
CC
    remedies inhibiting neovascularisation, remedies for solid cancer,
CC
    remedies for diseases pathologically caused by neovascularisation and
CC
    tissue repairing agents containing as the active ingredient a substance
CC
    capable of potentiating CXCR4. Based on a finding that vascularisation is
CC
    inhibited in a CXCR4 knockout mouse, it becomes possible to prepare
CC
    remedies inhibiting vascularisation which contain as the active
CC
    ingredient a substance capable of potentiating CXCR4, remedies for solid
CC
    cancer, remedies for diseases pathologically caused by neovascularisation
CC
    and tissue repairing agents containing as the active ingredient a
CC
    substance capable of potentiating CXCR4. It is also possible to establish
CC
    methods for treatment with the use of these remedies
ХX
    Sequence 352 AA;
SQ
 Query Match
                       100.0%; Score 1830; DB 2;
 Best Local Similarity
                      100.0%; Pred. No. 2.7e-213;
                             0; Mismatches
 Matches 352; Conservative
                                              0:
                                                 Indels
                                                             Gaps
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Ov
            Db
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qy
            Db
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
         121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qy
            Db
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qy
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
            Db
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Ov
            Db
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qу
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
            301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Db
RESULT 4
AAY52507
    AAY52507 standard; protein; 352 AA.
XX
AC
    AAY52507;
DT
    22-FEB-2000 (first entry)
XX
    Human CXC-chemokine receptor-4 (CXCR-4).
XX
KW
    CXC-chemokine receptor-4; CXCR-4; stromal cell derived factor-1; SDF-1;
    ligand; chemotaxis; inflammation; G-protein-coupled receptor;
KW
    signal transduction; CD4-independent; HIV-1; infection; proliferation;
ΚW
    transformation; tumorigenesis; cancer; tumour; overexpression; brain;
KW
    breast; colon; lung; melanoma; glioblastoma; inhibition; growth arrest;
    diagnosis; prognosis; marker; proliferative disorders; antisense;
ΚW
KW
    therapy; treatment; premalignant condition; hypertrophy;
    degenerative disorder; Parkinson's disease; Alzheimer's disease;
```

```
growth deficiency; hypoproliferative disorder; physical trauma; lesion;
KW
     ischaemia; wound.
XX
    Homo sapiens.
os
XX
PN
    W09950461-A1.
ХX
    07-OCT-1999.
PD
XX
PF
    29-MAR-1999;
                   99WO-US007431.
XX
PR
     30-MAR-1998;
                   98US-0079916P.
PR
    16-OCT-1998;
                   98US-0104656P.
XX
PΑ
     (NWBI-) NORTHWEST BIOTHERAPEUTICS INC.
XX
PΤ
    Murphy GP, Boynton AL, Sehgal A;
XX
    WPI; 2000-052634/04.
DR
DR
    N-PSDB; AAZ38553.
XX
PT
    Use of CXCR-4 and SDF-1 as markers for diagnosis and treatment of e.g.
PT
     tumors, degenerative disorders, growth deficiencies, hyper- and
PΤ
    hypoproliferative disorders, physical trauma, lesions and wounds.
XX
    Disclosure; Fig 14; 138pp; English.
PS
XX
CC
    This sequence represents CXC-chemokine receptor-4 (CXCR-4). Chemokine
CC
     receptors play an important role in the chemotaxis of T-cells and
CC
     phagocytic cells to areas of inflammation. CXCR-4 is a member of the G-
CC
    protein-coupled receptor family, which is involved in signal
CC
     transduction, and its ligand is stromal cell derived factor-1 (SDF-1,
CC
    AAY52508). CXCR-4 also mediates CD4-independent infection by HIV-1. CXCR-
CC
     4 has now been found to have a role in the aberrant proliferative
CC
    behaviour of a number of cell types, including numerous primary tumours
CC
     and derived cell lines. CXCR-4 is involved in cell transformation and
CC
     tumorigenesis, particularly in brain, breast and colon tumours. It was
CC
    -found to be overexpressed in several brain tumour derived cell lines and
CC
     primary brain tumour tissues, breast tumour tissues, colorectal
CC
    adenocarcinoma, lung carcinoma and melanoma cell lines. CXCR-4 expression
CC
    was required for the continuous proliferation of glioblastoma cancer
CC
     cells, and inhibition of its gene function resulted in growth arrest.
CC
    Conversely, overexpression resulted in enhanced and rapid cellular
CC
     proliferation. CXCR-4 and SDF-1 can be used as markers for the diagnosis
CC
     and prognosis of cell proliferative disorders, and antisense
    oligonucleotides complementary to at least a portion of an RNA transcript
CC
     of a CXCR-4 gene can be used to inhibit hyperproliferation of a tumour
CC
     cell. Agents that inhibit CXCR-4 function can be used for treating or
     preventing a disease or disorder involving cell overproliferation, e.g.,
     brain cancer, breast cancer, colon cancer, prostate cancer and B cell
CC
CC
     lymphoma, and also premalignant conditions, benign tumours,
     hyperproliferative disorders, and benign dysproliferative disorders. They
     can also be used for treating e.g., cirrhosis of the liver, keloid
CC
CC
     formation, psoriasis, benign tumors, fibrocystic conditions and tissue
    hypertrophy. Compounds that promote CXCR-4 function can also be used for
    preventing or treating a disease or disorder involving a deficiency in
CC
CC
    cell proliferation, or treating a condition where cell proliferation
     would be desirable. Such diseases include degenerative disorders (e.g.,
     Parkinson's disease, Alzheimer's disease), growth deficiencies,
CC
CC
     hypoproliferative disorders, physical trauma, lesions (e.g., those caused
    by ischaemia), and wounds
ХX
SO
    Sequence 352 AA;
  Query Match
                         100.0%; Score 1830; DB 3; Length 352;
                         100.0%; Pred. No. 2.7e-213;
  Best Local Similarity
  Matches 352; Conservative
                                0; Mismatches
                                                 0; Indels
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Qy
             Db
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
          61 LVMGYOKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
0ν
              61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
```

```
121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qу
             121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Db
         181 DDRYICDRFYPNDLWVVVFOFOHIMVGLILPGIVILSCYCIIISKLSHSKGHOKRKALKT 240
Qγ
             Db
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qν
             241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Db
         301 LYAFLGAKFKTSAOHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Ov
             301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 5
AAE06690
    AAE06690 standard; protein; 352 AA.
    AAE06690;
AC
XX
    16-OCT-2001 (first entry)
DT
XX
    Human neuropeptide Y (NPY) Y3 receptor.
DF.
XX
KW
    Human; neuropeptide Y; NPY; bone disease; bone mass; gene therapy;
KW
    cerebrospinal fluid; CSF; inositol phosphate; IP; Paget's disease;
    fracture; extracellular signal-regulated kinase; ERK; osteoporosis;
KW
    osteopenia; bone metastasis; neurotransmitter; osteogenic;
KW
    NPY Y3 receptor.
XX
os
    Homo sapiens.
XX
PN
    WO200153477-A1.
XX
    26-JUL-2001.
PD
XX
PF
    22-JAN-2001; 2001WO-US002040.
XX
PR
    20-JAN-2000; 2000US-00489872.
XX
    (BAYU ) BAYLOR COLLEGE MEDICINE.
PΑ
PA
    (AMLI/) AMLING M.
XX
РΤ
    Amling M, Karsenty G, Ducy P;
XX
    WPI; 2001-488709/53.
DR
    N-PSDB; AAD12801.
XX
    Treating or preventing reduced bone mass, e.g. osteoporosis, by reducing
PT
    the level of neuropeptide Y activity in blood or cerebrospinal fluid.
XX
    Example 7; Page 85; 102pp; English.
XX
CC
    The present invention relates to a method for treatment or prevention of
CC
    bone diseases characterised by loss of bone mass, comprises administering
CC
    to a mammal a compound that lowers the level of neuropeptide Y (NPY) in
CC
    the serum or cerebrospinal fluid (CSF) or a compound that lowers the
    level of inositol phosphate (IP) or extracellular signal-regulated kinase
CC
    (ERK). The method is specifically used to treat (including by gene
CC
    therapy) or prevent osteoporosis, osteopenia or Paget's disease, but may
CC
    also be used e.g., in cases of fractures or bone metastases. These
CC
    diseases may also be diagnosed by detecting elevated NPY levels,
CC
    including monitoring of treatment, assessing efficacy of compounds in
CC
    clinical trials and for identifying subjects at risk. The present
CC
    sequence is a human NPY Y3 receptor
XX
SQ
    Sequence 352 AA;
                        100.0%; Score 1830; DB 4; 100.0%; Pred. No. 2.7e-213;
  Query Match
 Best Local Similarity
 Matches 352; Conservative
                               0; Mismatches
                                                0; Indels
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Оy
```

```
Db
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
          61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qу
            61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Db
Qy
         121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
             Dh
         121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qy
             181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qγ
            Db
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qу
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
            Db
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 6
    AAG79088 standard; protein; 352 AA.
ID.
XX
AC
    AAG79088;
XX
DT
    10-DEC-2001 (first entry)
DE
    Amino acid sequence of human CXCR4 protein.
XX
    Human; receptor; DC-SIGN; dendritic cell; T lymphocyte; HIV; qp120;
    C-type lectin; ICAM3; HIV entry; T cell; macrophage; HIV infection;
KW
KW
    CXCR4.
XX
os
    Homo sapiens.
XX
PN'
    WO200164752-A2.
XX
PD
    07-SEP-2001.
XX
PF
    28-FEB-2001; 2001WO-US006322.
XX
PR
    02-MAR-2000; 2000US-00517605.
XX
    (UYNY ) UNIV NEW YORK STATE.
PA
PA
    (UYNI-) UNIV NIJMEGEN.
XX
PI
    Littman DR, Kwon D, Van Kooyk Y, Geijtenbeek T;
XX
    WPI; 2001-602565/68.
DR
XX
РΤ
    An antibody for the treatment or prevention of HIV-infection comprises a
PT
    gp120 portion which binds to DC-SIGN or is exposed upon gp120 binding of
PT
    DC-SIGN due to concomitant conformational change.
XX
PS
    Disclosure; Page 117-118; 131pp; English.
XX
CC
    The specification describes an antibody which is specific for an
    antigenic fragment of gp120. This antigenic fragment binds to DC-SIGN or
CC
    is exposed upon gp120 binding of DC-SIGN due to concomitant
CC
CC
    conformational change. DC-SIGN is a receptor that is specifically
    expressed on dendritic cells and facilitates infection of T lymphocytes
CC
CC
    with HIV. DC-SIGN is identical to a HIV-1 gp120-binding C-type lectin. DC
CC
    -SIGN binds ICAM-3 (which is expressed constitutively on T lymphocytes)
CC
    with high affinity. The antibody of the invention inhibits the trans
    enhancement of HIV entry into a {\tt T} cell or macrophage facilitated by
CC
CC
    dendritic cells. The antibody is useful to treat or prevent HIV
CC
    infection. The present sequence represents a human CXCR4 protein, which
CC
    is a translocation promoting agent that interacts with CD4. This receptor
CC
    functions in HIV-1 entry into cells
XX
SO
    Sequence 352 AA;
```

```
100.0%; Score 1830; DB 4; Length 352;
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Qy
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Qγ
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Qγ
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ID
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XX
    AAG80123;
'AC
XX
DT
    17-JAN-2002 (first entry)
XX
DE
    Human CXCR4 protein.
XX
KW
    Chemokine; tumour diagnosis; colorectal; prostatic; organ rejection;
KW
    inflammation; autoimmune disease; metastasis; bronchial asthma; lupus;
    chronic bowel inflammation; rheumatoid arthritis; cytostatic;
KW
ΚW
    antiinflammatory; antiasthmatic; immunosuppressive; dermatological;
KW
    antirheumatic; antiarthritic.
XX
os
    Homo sapiens.
XX
ΡN
    W0200172830-A2.
XX
PD
    04-OCT-2001.
XX
PF
    02-APR-2001; 2001WO-EP003708.
XX
PR
    31-MAR-2000; 2000DE-01016013.
XX
PΑ
    (IPFP-) IPF PHARM GMBH.
PA
    (FORS/) FORSSMANN U.
XX
PΙ
    Forssmann W, Adermann K, Heitland A, Spodsberg N;
XX
DR
    WPI: 2001-626256/72.
XX
    Diagnostic agent containing two or more receptor-specific ligands, useful
PT
PT
    for detecting tumors, inflammation etc., also therapeutic use of ligand
PT
    inhibitors.
XX
    Disclosure; Page 12; 26pp; German.
PS
XX
CC
    This invention describes a novel diagnostic agent (A) comprising at least
CC
    two different ligands (I) for receptors (II) that are implicated in
    disease. (A) are used for the diagnosis of tumors (especially colorectal
    or prostatic), organ rejection, inflammation and autoimmune diseases.
CC
CC
    Also inhibitors of (I) are used therapeutically against tumors (and their
    metastases), inflammation (particularly bronchial asthma or chronic bowel
CC
    inflammation), or autoimmune diseases (rheumatoid arthritis or lupus),
```

```
where the (cardio)vascular, lymphatic, respiratory, nervous, digestive,
    endocrine, motor or urogenital systems or skin are affected, and bone
CC
CC
    marrow diseases. The products of the invention are chemokine derivatives
CC
    which have cytostatic, antiinflammatory, antiasthmatic,
CC
    immunosuppressive, dermatological, antirheumatic, antiarthritic.
CC
    Chemokines act on specific tumor and inflammatory cells through a
CC
    constellation of chemokine receptors (CR), which control migration and
    proliferation of these cells. AAG80045-AAG80128 represent human chemokine
CC
CC
    fragments used to illustrate the method of the invention
XX
SQ
    Sequence 352 AA;
                       100.0%; Score 1830; DB 4; Length 352;
 Query Match
 Best Local Similarity
                       100.0%; Pred. No. 2.7e-213;
 Matches 352; Conservative
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Qy
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TD
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    AA014003;
AC
ХX
DT
    08-MAY-2002 (first entry)
XX
DE
    Human cysteine-X-cysteine chemokine receptor 4.
XX
KW
    Cysteine-X-Cysteine Chemokine Receptor 4; CXCR4 binding peptide;
    chemoattractant cytokine; human immunodeficiency virus; HIV;
KW
KW
    HIV envelope glycoprotein; cellular CD4 receptor; env gene; gp160; gp120;
    gp41; CD4+ target cell; HIV-infected cell; CXCR4-binding compound;
KW
    acquired immunodeficiency syndrome; AIDS; human; receptor.
ХX
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    Homo sapiens.
XX
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FT
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    Region
                   77. .99
                   /note= "Transmembrane segment 2 (TM2)"
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FT
    Region
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FT
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    Region
                   111. .131
                   /note= "Transmembrane segment 3 (TM3)"
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FT
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     Misc-difference 280. .281
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XX
PN
     WO200170768-A2.
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     27-SEP-2001.
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PF
     21-MAR-2001; 2001WO-US009160.
XX
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     21-MAR-2000; 2000US-0190946P.
     21-MAR-2000; 2000US-0190996P.
     21-MAR-2000; 2000US-0191299P.
PR
PR
     20-MAR-2001; 2001US-00813448.
PR
     20-MAR-2001; 2001US-00813651.
     20-MAR-2001; 2001US-00813653.
PR
XX
     (CONS-) CONSENSUS PHARM INC.
XX
PΙ
     Nestor JJ, Wilson CJ, Tan Hehir CA, Kates SA;
XX
     WPI; 2002-010593/01.
DR
DR
     N-PSDB; AAK98241.
XX
PΤ
     Identifying agents that bind to CXC chemokine receptor 4, useful for
PT
     treatment and prevention of acquired immunodeficiency syndrome, comprises
PT
     screening compound library for members that bind to the receptor.
XX
PS
     Example 3; Fig 3B; 46pp; English.
XX
     The invention relates to a method of identifying Cysteine-X-Cysteine
CC
CC
     chemokine receptor 4 (CXCR4) binding compounds. The method comprises
CC
     testing and selecting compounds in a library for their ability to bind to
CC
     CXCR4. Chemokines (chemoattractant cytokines) regulate the movement and
CC
     biological activities of leukocytes in many disease situations. CXCR4
CC
     acts as a co-receptor for human immunodeficiency virus (HIV), as it
     interacts with the HIV envelope glycoproteins and the cellular \ensuremath{\text{CD4}}
CC
CC
     receptor, to facilitate HIV entry into cells. The HIV glycoproteins
CC
     (encoded by the env gene) are translated as a precursor (gp160) which is
     subsequently cleaved into gp120 and gp41. Gp120 binds to CXCR4 and the
CC
CC
     CD4 receptor present on the surface of susceptible CD4+ target cells,
CC
     causing the virus to fuse with the cell membranes and thereby
CC
     facilitating entry of the virus into the cell. The eventual expression of
CC
     the env product on the surface of the HIV-infected cell enables the cell
CC
     to fuse with uninfected CD4+ cells, thereby spreading the infection. The
CC
     CXCR4-binding compounds of the invention inhibit the entry of HIV into
CC
     the CD4+ cell and therefore are useful in the prevention of HIV infection
CC
     and the treatment and prevention of acquired immunodeficiency syndrome
CC
     (AIDS). The present sequence represents the human CXCR4 protein used in
CC
     the method of the invention
XX
SO
     Sequence 352 AA:
                          100.0%;
                                   Score 1830; DB 5; Length 352;
  Ouerv Match
                          100.0%; Pred. No. 2.7e-213;
 Best Local Similarity
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             Db
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AC
XX
DT
    30-OCT-2002 (first entry)
XX
DÈ
    Human CXC chemokine receptor 4 protein SEQ ID NO:126.
XX
KW
    Cysteine-X-cysteine chemokine receptor 4; CXC chemokine receptor 4;
KW
    binding; identification; AIDS; HIV; CXCR4; virucide; anti-HIV.
XX
05
    Homo sapiens.
XX
    WO200257313-A2.
.PN
XX
PD
    25-JUL-2002.
XX
PF
    26-OCT-2001; 2001WO-US051165.
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PR
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    20-MAR-2001; 2001US-00813653.
PR
XX
     (CONS-) CONSENSUS PHARM INC.
PA
XX
PΤ
    Nestor JJ, Wilson CJ, Tan Hehir CA, Kates SA, Krstenansky J;
XX
    WPI; 2002-608378/65.
DR
    N-PSDB; ABQ74938.
DR
XX
PT
    Identifying a binding compound for cysteine-X-cysteine chemokine receptor
PT
    4 (CXCR4) for preventing or treating AIDS and HIV infection, comprises
    binding a molecule to a molecule with a binding property corresponding to
PT
    CXCR4.
XX
    Example 3; Fig 3A-B; 92pp; English.
PS
XX
CC
    The present invention describes a method (M1) for identifying a binding
CC
    compound for cysteine-X-cysteine chemokine receptor 4 (CXCR4) comprises
CC
    binding a molecule from the library of two or more molecules to the
CC
    molecule with a binding property corresponding to CXCR4. (M1) comprises:
CC
    (a) providing a library of two or more molecules; (b) providing a
CC
    molecule with a binding property corresponding to CXCR4; (c) binding a
    molecule from the library of two or more molecules to the molecule with a
CC
    binding property corresponding to CXCR4; (d) separating the bound
CC
    molecule from the library of two or more molecules; and (e) identifying
```

Mismatches

Indels

Gaps

352; Conservative

```
the bound molecule as a binding compound for CXCR4. Also described is a
    binding compound (I) for CXCR4 identified from M1. (I) has virucide and
CC
    anti-HIV activities. A partially purified CXCR4 protein is useful for
CC
    carrying out selection, identification and improvement of tight binding
CC
    ligands in identifying therapeutically useful compounds. Therapeutic
    peptides, peptidomimetics, or small molecule antagonists or agonists of
    CXCR4 binding may be used in the prevention and treatment of AIDS and HIV
CC
CC
    infection. The present sequence represents human CXCR4 which is given in
CC
    an example from the present invention
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 Query Match
                       100.0%; Score 1830; DB 5; Length 352;
 Best Local Similarity
                       100.0%; Pred. No. 2.7e-213;
 Matches 352; Conservative
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                                                 Indels
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Qу
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          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qy
            Db
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Qy
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XX
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AC
XX
DT
    02-DEC-2002 (first entry)
XX
DF.
    Human CXC chemokine receptor 4 (CXCR4).
XX
    CXC chemokine receptor 4; CXCR4; chemotaxis induction; SDF1a;
KW
KW
    stromal cell-derived factor lalpha; angiogenesis; atherosclerosis;
    restenosis; ischaemic stroke; spinal cord injury; infection; ulcer;
    human immunodeficiency virus; HIV; acquired immunodeficiency syndrome;
KW
KW
    AIDS; pain; cancer; benign prostatic hypertrophy; diabetes; obesity;
    anorexia; bulimia; asthma; Parkinson's disease; acute heart failure;
    hypotension; hypertension; urinary retention; osteoporosis; stroke;
KW
KW
    anginal pectoris; myocardial infarction; benign prostatic hypertrophy;
    migraine; vomiting; psychotic disorder; neurological disorder; anxiety;
    schizophrenia; dyskinesia; Huntingdon's disease; restenosis;
KW
KW
    inflammatory disease; rheumatoid arthritis; diabetic retinopathy;
KW
    inflammatory bowel disease; atherosclerosis; Alzheimer's disease;
    congestive heart failure; cardiac remodeling; angiogenic diseases;
KW
KW
    solid tumour; Kaposi Sarcoma; human.
XX
OS
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XX
ΡN
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XX
PD
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XX
PF
    17-SEP-2001; 2001US-00953692.
XX
                  98US-0093596P.
    21-JUL-1998:
PR
PR
    21-JUL-1999;
                  99US-00358624.
```

XX PA (SMIK) SMITHKLINE BEECHAM CORP. XXGupta SK; PΤ XXDR WPI; 2002-697879/75. N-PSDB; ABS53992. DR XX РΤ Inducing chemotaxis of endothelial cells, useful for regulating PT angiogenesis, e.g. for treating cancer, comprises treatment with stromal PT cell-derived factor 1 alpha. XX PS Claim 3; Fig 1; 26pp; English. XX The invention describes a method of inducing chemotaxis of endothelial CC CC cells by treatment with stromal cell-derived factor lalpha (SDFla). The CC method is used for stimulating EC chemotaxis, and thus angiogenesis, and CC is used for treating atherosclerosis, restenosis, ischaemic stroke and spinal cord injury. Inhibition of this process is useful in treatment and CC prevention of a very wide range of diseases, such as, infection (by CC bacteria, fungi, protozoa or viruses such as human immunodeficiency virus (HIV) and acquired immunodeficiency syndrome (AIDS)), pain, cancer and CC CC benign prostatic hypertrophy, diabetes, obesity, anorexia, bulimia, CC asthma, Parkinson's disease, acute heart failure, hypotension, CC hypertension, urinary retention, osteoporosis, anginal pectoris, CC myocardial infarction, stroke, ulcers, benign prostatic hypertrophy, CC migraine, vomiting, psychotic and neurological disorders (e.g. anxiety, CC schizophrenia) and dyskinesias (e.g. Huntingdon's disease), inflammatory CC diseases, rheumatoid arthritis, diabetic retinopathy, inflammatory bowel disease, atherosclerosis, restenosis, Alzheimer's disease, congestive CC CC heart failure, cardiac remodeling, angiogenic diseases, solid tumours, and Kaposi Sarcoma. This is the amino acid sequence of a CXC chemokine

start | next page

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10785230 and Search Result 20070206_074020_us-10-785-230-1.rup.

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SCORE FAQ

Comments / <u>Suggestions</u>

This page gives you Search Results detail for the Application 10785230 and Search Result 20070206_074020_us-10-785-230-1.rup.

start | next page

Go Back to previous page

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OM protein - protein search, using sw model

List

February 6, 2007, 14:08:15; Search time 227 Seconds

(without alignments)

1660.742 Million cell updates/sec

Title:

US-10-785-230-1

Perfect score: 1830

1 MEGISIYTSDNYTEEMGSGD......KRGGHSSVSTESESSSFHSS 352 Sequence:

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched:

3281787 segs, 1072124677 residues

Total number of hits satisfying chosen parameters:

3281787

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

UniProt 8.4:* 1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Re	sult		Query					
No.		Score	Match	Length	DB	ID	Descrip	>tion
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	6	1809	98.9	352	2	Q8HZUO_SAISC	Q8hzu0	saimiri sci
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	14	1802	98.5	347	2	Q9MZN6_HYLLE	Q9mzn6	nomascus le

15 1802 98.5 Q9MZN5 BUNHO O9mzn5 bunopithecu 1799 98.3 Q9BDS5_MACFA 16 352 Q9bds5 macaca fasc Q9MZN4_HYLLA Q7YS92_9EUTH 17 1798 98.3 347 Q9mzn4 hylobates 1 1798 98.3 Q7ys92 tupaia chin 18 352 19 1795 98.1 352 CXCR4_CERTO O62747 cercocebus 1792 97.9 20 347 Q9MZN3 HYLSY Q9mzn3 hylobates s 1786 97.6 Q9MZP5 9PRIM 21 347 Q9mzp5 presbytis p 22 1786 97.6 347 Q9MZP8 COLPO Q9mzp8 colobus pol Q9MZQ2_PYGRO Q9MZQ1_PYGBI 23 1786 97.6 347 Q9mzq2 pygathrix r 24 1786 97.6 347 Q9mzq1 pygathrix b 25 1786 97.6 347 Q9MZPO MACAS Q9mzp0 macaca assa Q9MZN8_MACTH Q9MZN7_MACNE 26 1786 97.6 347 Q9mzn8 macaca thib 97.6 27 1786 347 Q9mzn7 macaca neme 28 1786 97.6 347 Q9MZP9_NASLA Q9mzp9 nasalis lar Q9MZQ3_PYGAV 29 1786 97.6 347 Q9mzq3 pygathrix a 97.6 30 1786 347 Q9MZQ0 PYGNE Q9mzq0 pygathrix n 1786 97.6 31 347 Q9MZP4 PREFR Q9mzp4 presbytis f Q9MZN9_MACAR Q9MZP7_9PRIM 32 1786 97.6 347 Q9mzn9 macaca arct 33 1782 97.4 347 Q9mzp7 presbytis s 1782 97.4 347 Q9MZP2 MANSP Q9mzp2 mandrillus 34 35 1781 97.3 .347 Q9MZM9_ATEPA Q9mzm9 ateles pani 1779 36 97.2 347 Q9MZM5_PITPI Q9mzm5 pithecia pi 37 1779 97.2 347 Q9MZM7 CALGO Q9mzm7 callimico g Q9MZP6_9PRIM Q9MZP3_SEMEN 38 1778 97.2 347 Q9mzp6 presbytis j 1778 39 97.2 347. Q9mzp3 semnopithec 40 1777 97.1 347 Q9MZNO ALOSE Q9mzn0 alouatta se 41 1771 96.8 347 Q9MZP1_MANLE Q9mzp1 mandrillus 42 1771 96.8 347 Q9MZM6 CALMO Q9mzm6 callicebus 1760 347 Q9MZM8_CALJA 43 96.2 Q9mzm8 callithrix Q3LSL6_CANFA Q9MZM1_EULMA 44 1754.5 95.9 353 2 Q31s16 canis famil 45 1754 95.8 Q9mzml eulemur mac

ALIGNMENTS

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RESULT 1
CXCR4 HUMAN
     CXCR4 HUMAN
                    STANDARD;
                                    PRT;
                                            352 AA.
     P61073; 060835; P30991; P56438; Q9UKN2;
DT
     26-APR-2004, integrated into UniProtKB/Swiss-Prot.
     26-APR-2004, sequence version 1. 13-JUN-2006, entry version 27.
DT
DF.
     C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (Stromal cell-
     derived factor 1 receptor) (SDF-1 receptor) (Fusin) (Leukocyte-derived
DE
     seven transmembrane domain receptor) (LESTR) (LCR1) (FB22) (NPYRL)
DE
     (HM89) (CD184 antigen).
     Name=CXCR4;
OS
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OC
     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
oc
     Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
oc
     Catarrhini: Hominidae: Homo.
OX
     NCBI_TaxID=9606;
RN
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RP
     NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), AND FUNCTION.
RC.
     TISSUE=Lung;
RX
     MEDLINE=93319629; PubMed=8329116;
RA
     Herzog H., Hort Y.J., Shine J., Selbie L.A.;
RT
     "Molecular cloning, characterization, and localization of the human
RT
     homolog to the reported bovine NPY Y3 receptor: lack of NPY binding
RT
     and activation.";
RL
     DNA Cell Biol. 12:465-471(1993).
RN
     NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), AND FUNCTION.
RP
RC
     TISSUE=Fetal brain;
     MEDLINE=94052833; PubMed=8234909; DOI=10.1016/0167-0115(93)90392-L;
     Jazin E.E., Yoo H., Blomqvist A.G., Yee F., Weng G., Walker M.W.,
RA
RA
     Salon J., Larhammar D., Wahlestedt C.R.;
     "A proposed bovine neuropeptide Y (NPY) receptor cDNA clone, or its
     human homologue, confers neither NPY binding sites nor NPY
RT
RT
     responsiveness on transfected cells.";
RL
     Regul. Pept. 47:247-258(1993).
RN
     [3]
RP
     NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
RC
     TISSUE=Fetal spleen;
     MEDLINE=93315164; PubMed=8325644;
```

```
Federsppiel B., Melhado I.G., Duncan A.M., Delaney A.D.,
     Schappert K.T., Clark-Lewis I., Jirik F.R.;
     "Molecular cloning of the cDNA and chromosomal localization of the
RT
     gene for a putative seven-transmembrane segment (7-TMS) receptor
     isolated from human spleen.";
RT
    Genomics 16:707-712(1993).
RL
RN
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    NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
RC
    TISSUE=Monocyte;
    MEDLINE=94103215; PubMed=8276799;
RX
    Loetscher M., Geiser T., O'Reilly T., Zwahlen R., Baggiolini M.,
RA
    Moser B.:
RT
     "Cloning of a human seven-transmembrane domain receptor, LESTR, that
     is highly expressed in leukocytes.";
     J. Biol. Chem. 269:232-237(1994).
RT.
RN
    NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
RP
₽X
    MEDLINE=94092629; PubMed=7505609;
RΑ
    Nomura H., Nielsen B.W., Matsushima K.;
     "Molecular cloning of cDNAs encoding a LD78 receptor and putative
RT
     leukocyte chemotactic peptide receptors.";
RL
     Int. Immunol. 5:1239-1249(1993).
    NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1), AND CHARACTERIZATION OF ITS
RP
RP
     HIV-1 CORECEPTOR FUNCTION.
    MEDLINE=96217947; PubMed=8629022;
     Feng Y., Broder C.C., Kennedy P.E., Berger E.A.;
RA
RT
     "HIV-1 entry cofactor: functional cDNA cloning of a seven-
     transmembrane, G protein-coupled receptor.";
RI.
     Science 272:872-877(1996).
RN
     [7]
    NUCLEOTIDE SEQUENCE [GENOMIC DNA].
RC
    TISSUE=Peripheral blood leukocyte;
RX
    MEDLINE=98136183; PubMed=9468539; DOI=10.1074/jbc.273.8.4754;
     Wegner S.A., Ehrenberg P.K., Chang G., Dayhoff D.E., Sleeker A.L.,
RA
    Michael N.L.;
RT
     "Genomic organization and functional characterization of the chemokine
     receptor CXCR4, a major entry co-receptor for human immunodeficiency
RT
     virus type 1.";
     J. Biol. Chem. 273:4754-4760(1998).
RL.
RN
     [8]
RP
    NUCLEOTIDE SEQUENCE [GENOMIC DNA].
    MEDLINE=98258970; PubMed=9599023; DOI=10.1016/S0014-5793(98)00359-7;
RX
     Caruz A., Samsom M., Alonso J.M., Alcami J., Baleux F.,
RA
     Virelizier J.-L., Parmentier M., Arenzana-Seisdedos F.;
     "Genomic organization and promoter characterization of human {\tt CXCR4}
RT
RT
     gene.";
RL
     FEBS Lett. 426:271-278(1998).
RN
     [9]
RP
     NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
     MEDLINE=99408510; PubMed=10480633; DOI=10.1089/088922299310296;
RA
     Xiao L., Weiss S.H., Qari S.H., Rudolph D., Zhao C., Denny T.N.,
     Hodge T., Lal R.B.;
     "Partial resistance to infection by R5X4 primary HIV type 1 isolates
     in an exposed-uninfected individual homozygous for CCR5 32-base pair
RT
RT
     deletion.";
RL
     AIDS Res. Hum. Retroviruses 15:1201-1208(1999).
RN
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RP
     NUCLEOTIDE SEQUENCE [GENOMIC DNA].
RC
     TISSUE=Peripheral blood lymphocyte;
     MEDLINE=99095114; PubMed=9879064;
RX
RA
     Frodl R., Gierschik P., Moepps B.;
     "Genomic organization and expression of the CXCR4 gene in mouse and
RТ
     man: absence of a splice variant corresponding to mouse CXCR4-B in
RT
     human tissues.";
RL
     J. Recept. Signal Transduct. Res. 18:321-344(1998).
RN
     [11]
RP
     NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 2).
RC
     TISSUE=Neutrophil;
RX
     MEDLINE=99384048; PubMed=10452968;
     Gupta S.K., Pillarisetti K.;
     "CXCR4-Lo: molecular cloning and functional expression of a novel
RT
RT
     human CXCR4 splice variant.";
     J. Immunol. 163:2368-2372(1999).
RN
     1121
     NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RP
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```
TISSUE=Lung;
RC
RA
     Warren C.N., Aronstam R.S., Sharma S.V.;
     "cDNA clones of human proteins involved in signal transduction
    .sequenced by the Guthrie cDNA resource center (www.cdna.org).";
RT
     Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.
RL
RN
     [13]
     NUCLEOTIDE SEQUENCE [GENOMIC DNA].
RP
     Rieder M.J., Daniels R.L., da Ponte S.H., Hastings N.C., Ahearn M.O.,
     Rajkumar N., Yi Q., Nickerson D.A.;
RA
RT
     "SeattleSNPs. NHLBI HL66682 program for genomic applications, UW-
     FHCRC, Seattle, WA (URL: http://pga.gs.washington.edu).";
     Submitted (AUG-2004) to the EMBL/GenBank/DDBJ databases.
RL
RN
     [14]
     NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RA
     Kalnine N., Chen X., Rolfs A., Halleck A., Hines L., Eisenstein S.,
RA
     Koundinya M., Raphael J., Moreira D., Kelley T., LaBaer J., Lin Y.,
     Phelan M., Farmer A.;
RT
     "Cloning of human full-length CDSs in BD Creator(TM) system donor
RT
     vector.";
     Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
RI.
RN
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RP
     NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RC
     TISSUE=Colon:
     MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RX
RA
     Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
     Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA
     Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA
     Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
     Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA
     Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA
     Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
     Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.
     Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA
RA
     Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
     Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
     Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA
RA
     Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA
RA
     Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT
     "Generation and initial analysis of more than 15,000 full-length human
     and mouse cDNA sequences.";
RT
     Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN
     [16]
     SULFATION.
RP
     MEDLINE=99189752; PubMed=10089882; DOI=10.1016/S0092-8674(00)80577-2;
     Farzan M., Mirzabekov T., Kolchinsky P., Wyatt R., Cayabyab M.,
     Gerard N.P., Gerard C., Sodroski J., Choe H.;
RA
RT
     "Tyrosine sulfation of the amino terminus of CCR5 facilitates HIV-1
RT
     entry.";
     Ceil 96:667-676(1999).
RT.
RN
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RP
     FUNCTION.
     MEDLINE=96351077; PubMed=8752280; DOI=10.1038/382829a0;
RX
RA
     Bleul C.C., Farzan M., Choe H., Parolin C., Clark-Lewis I.,
RA
     Sodroski J., Springer T.A.;
RT
     "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and
RT
     blocks HIV-1 entry.";
RI.
     Nature 382:829-833(1996).
RN
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RP
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     MEDLINE=96351078; PubMed=8752281; DOI=10.1038/382833a0;
RA
     Oberlin E., Amara A., Bachelerie F., Bessia C., Virelizier J.-L.,
     Arenzana-Seisdedos F., Schwartz O., Heard J.-M., Clark-Lewis I.,
     Legler D.F., Loetscher M., Baggiolini M., Moser B.;
RA
RT
     "The CXC chemokine SDF-1 is the ligand for LESTR/fusin and prevents
RT
     infection by T-cell-line-adapted HIV-1.";
RT.
     Nature 382:833-835(1996).
RN
     [19]
RA
     Oberlin E., Amara A., Bachelerie F., Bessia C., Virelizier J.-L.,
RA
     Arenzana-Seisdedos F., Schwartz O., Heard J.-M., Clark-Lewis I.,
     Legler D.F., Loetscher M., Baggiolini M., Moser B.;
RT.
     Nature 384:288-288(1996).
RN
     [20]
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CHARACTERIZATION AS HIV-1 CORECEPTOR.
RP
    MEDLINE=97002453; PubMed=8849450; DOI=10.1126/science.274.5287.602;
RX
    Lapham C.K., Ouyang J., Chandrasekhar B., Nguyen N.Y., Dimitrov D.S.,
RA
    Golding H .:
RT
    "Evidence for cell-surface association between fusin and the CD4-gp120
RT
    complex in human cell lines.";
    Science 274:602-605(1996).
RT.
RN
    CHARACTERIZATION AS HIV-2 PRIMARY RECEPTOR IN SOME ISOLATES.
RP
    MEDLINE=97083584; PubMed=8929542; DOI=10.1016/S0092-8674(00)81393-8;
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 Query Match
                       100.0%; Pred. No. 6.5e-133;
 Best Local Similarity
 Matches 352; Conservative
                              0; Mismatches
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            Db
           1 MEGISTYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTTYSTIFLTGTVGNGLVI 60
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Qу
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Qу
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         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
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             Db
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         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
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RESULT 2
CXCR4_PANTR
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                  STANDARD:
                               PRT:
    P61072; O60835; P30991; P56438; Q9UKN2;
    26-APR-2004, integrated into UniProtKB/Swiss-Prot.
    26-APR-2004, sequence version 1.
DT
DT
    18-APR-2006, entry version 19.
    C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (SDF-1 receptor)
    (Stromal cell-derived factor 1 receptor) (Fusin) (CD184 antigen).
DE
GN
    Name=CXCR4:
    Pan troglodytes (Chimpanzee).
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC
OC
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
    Catarrhini; Hominidae; Pan.
OX
    NCBI_TaxID=9598;
RN
    [1]
    NUCLEOTIDE SEQUENCE [MRNA].
    MEDLINE=98090115: PubMed=9430250:
RA
    Pretet J.-L., Zerbib A.C., Girard M., Guillet J.-G., Butor C.;
RT
    "Chimpanzee CXCR4 and CCR5 act as coreceptors for HIV type 1.";
    AIDS Res. Hum. Retroviruses 13:1583-1587(1997).
RL
CC
    -!- FUNCTION: Receptor for the C-X-C chemokine CXCL12/SDF-1.
CC
        Transduces a signal by increasing the intracellular calcium ions
        level (By similarity).
CC
CC
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CC
    -!- PTM: Sulfated (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
DR
    EMBL; U89798; AACO3718.1; -; mRNA.
DR
    InterPro; IPR000355; Chmkine_rcpt.
    InterPro; IPR001277; CXC_4_rcpt.
    InterPro; IPR000276; GPCR_Rhodpsn.
DR
DR
    Pfam; PF00001; 7tm 1; 1.
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PRINTS: PRO0657: CCCHEMOKINER.
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DR
    PRINTS; PRO0237; GPCRRHODOPSN.
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DR
    PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
KW
    G-protein coupled receptor; Glycoprotein; Membrane; Receptor;
KW
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FT
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                       39
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                64
                      79
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FT
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                80
                       99
                               2 (Potential).
FT
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                      110
                               Extracellular (Potential).
FT
    TRANSMEM
               111
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FT
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FT
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FT
FT
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                      261
                               6 (Potential).
FΤ
    TOPO DOM
               262
                      285
                               Extracellular (Potential).
FT
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    TOPO DOM
FT
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FT
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                21
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FT
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                11
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                               By similarity.
FT
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SQ
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 Query Match
 Best Local Similarity
                              0; Mismatches
 Matches 352; Conservative
                                                               Gaps
Qу
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
             1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Db
Qу
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             Db
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RESULT 3
Q53S69 HUMAN
    O53S69 HUMAN
                  PRELIMINARY:
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                                      352 AA.
ID
    24-MAY-2005, integrated into UniProtKB/TrEMBL.
DT
    24-MAY-2005, sequence version 1.
DT
    13-JUN-2006, entry version 13.
DE
    Hypothetical protein CXCR4.
GN
    Name=CXCR4:
OS
    Homo sapiens (Human).
OC
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC.
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC
    Catarrhini; Hominidae; Homo.
OX
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RN
    [1]
    NUCLEOTIDE SEQUENCE.
RP
    Abbott A., Lamar B., Ureta M.;
RA
    "The sequence of Homo sapiens BAC clone RP11-809C23.";
RT
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Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.
RP
    NUCLEOTIDE SEQUENCE.
RA
    Waterston R.H.;
    Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
RN
RP
    NUCLEOTIDE SEQUENCE.
RA
    Waterston R.;
    Submitted (OCT-2002) to the EMBL/GenBank/DDBJ databases.
RL
RN
RP
    NUCLEOTIDE SEQUENCE.
RA
    Wilson R.K.:
RL
    Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
CC
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
CC
DR
    EMBL; AC068492; AAY24044.1; -; Genomic DNA.
DR
    UniGene; Hs.421986; -.
    Ensembl; ENSG00000121966; Homo sapiens.
DR
    RZPD-ProtExp; A0419; -
    RZPD-ProtExp; RZPDo834F0245; -.
DR
    GO; GO:0016021; C:integral to membrane; IEA.
    GO; GO:0016020; C:membrane; IEA.
    GO; GO:0016493; .F:C-C chemokine receptor activity; IEA.
DR
    GO; GO:0016494; F:C-X-C chemokine receptor activity; IEA.
    GO; GO:0004872; F:receptor activity; IEA.
    GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
DR
    GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; IEA.
    GO; GO:0007165; P:signal transduction; IEA.
    InterPro; IPR000355; Chmkine_rcpt.
DR
    InterPro; IPR001277; CXC_4_rcpt.
DR
    InterPro; IPR000276; GPCR Rhodpsn.
    Pfam; PF00001; 7tm 1; 1.
DR
DR
    PRINTS; PRO0657; CCCHEMOKINER.
    PRINTS; PRO0645; CXCCHMKINER4.
    PRINTS; PRO0237; GPCRRHODOPSN.
DR
DR
    PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
    PROSITE; PS50262; G PROTEIN RECEP F1 2; 1.
ΚW
    G-protein coupled receptor; Hypothetical protein; Membrane; Receptor;
ΚW
    Transducer; Transmembrane.
             352 AA; 39746 MW; 8C8476A186786B83 CRC64;
 Query Match
                       100.0%; Score 1830; DB 2; Length 352;
 Best Local Similarity 100.0%; Pred. No. 6.5e-133;
 Matches 352; Conservative
                             0; Mismatches
                                             0; Indels
                                                                     0;
                                                          0; Gaps
Qγ
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
            1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Db
          61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qy
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Db
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DЬ
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Qγ
             Db
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
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Qγ
            Db
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
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RESULT 4
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RESULT 4
Q9BXAO_HUMAN

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AC
    O9BXA0:
    01-JUN-2001, integrated into UniProtKB/TrEMBL.
DT
    01-JUN-2001, sequence version 1.
DT
    13-JUN-2006, entry version 25.
DE
    Chemokine receptor CXCR4.
OS
    Homo sapiens (Human).
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
    Catarrhini; Hominidae; Homo.
OC.
    NCBI_TaxID=9606;
RN
    [1]
RP
    NUCLEOTIDE SEQUENCE.
    Fan Z., Li T., Li J., Luo B.;
    Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.
RL
CC
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
CC
DR
    EMBL; AF348491; AAK29630.1; -; mRNA.
    Ensembl; ENSG00000121966; Homo sapiens.
    RZPD-ProtExp; A0419; -.
DR
DR
    RZPD-ProtExp; RZPDo834F0245; -.
    GO; GO:0016021; C:integral to membrane; IEA.
    GO; GO:0016020; C:membrane; IEA.
DR
DR
    GO; GO:0016493; F:C-C chemokine receptor activity; IEA.
    GO; GO:0016494; F:C-X-C chemokine receptor activity; IEA.
    GO; GO:0004872; F:receptor activity; IEA.
DR
    GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
    GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; IEA.
DR
    GO; GO:0007165; P:signal transduction; IEA.
DR
    InterPro; IPR000355; Chmkine_rcpt.
    InterPro; IPR001277; CXC 4 rcpt.
    InterPro; IPR000276; GPCR_Rhodpsn.
DR
DR
    Pfam; PF00001; 7tm_1; 1.
    PRINTS; PRO0657; CCCHEMOKINER.
    PRINTS; PR00645; CXCCHMKINER4.
DR
    PRINTS; PRO0237; GPCRRHODOPSN.
np
    PROSITE; PS00237; G PROTEIN RECEP F1 1; 1.
DR
    PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
KW
    G-protein coupled receptor; Membrane; Receptor; Transducer;
    Transmembrane.
    SEQUENCE 352 AA; 39743 MW; 0A5F0E4210C81469 CRC64;
                       99.6%; Score 1822; DB 2; Length 352;
 Best Local Similarity
                       99.4%; Pred. No. 2.7e-132;
 Matches 350; Conservative
                             1; Mismatches
                                             1; Indels
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Qγ
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Qу
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Db
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Db
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Οv
            DЬ
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qу
            241 TIIPILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Db
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qу
            Db
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
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RESULT 5

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CXCR4 PAPAN
     CXCR4 PAPAN
TD
                    STANDARD:
                                   PRT:
                                          352 AA.
DT
     15-JUL-1998, integrated into UniProtKB/Swiss-Prot.
DT
     15-JUL-1998, sequence version 1.
DT
     18-APR-2006, entry version 33.
     C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (SDF-1 receptor)
DF.
     (Stromal cell-derived factor 1 receptor) (Fusin) (CD184 antigen).
GN
     Name=CXCR4;
OS
     Papio anubis (Olive baboon).
     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC
     Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC.
     Catarrhini; Cercopithecidae; Cercopithecinae; Papio.
     NCBI_TaxID=9555;
RN
     [1]
     NUCLEOTIDE SEQUENCE [MRNA].
RP
     MEDLINE=98346785; PubMed=9683255; DOI=10.1016/S0161-5890(98)00016-9;
RA
     Benton P.A., Lee D.R., Kennedy R.C.;
RT
     "Sequence comparisons of non-human primate HIV-1 coreceptor
     homologues.";
RL
     Mol. Immunol. 35:95-101(1998).
CC
     -!- FUNCTION: Receptor for the C-X-C chemokine CXCL12/SDF-1.
CC
         Transduces a signal by increasing the intracellular calcium ions
CC
         level (By similarity).
CC
     -!- SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein.
CC
     -!- PTM: Sulfated (By similarity).
CC.
     -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
     Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
     Distributed under the Creative Commons Attribution-NoDerivs License
CC
     EMBL; AF031089; AAC63831.1; -; mRNA.
     InterPro; IPR000355; Chmkine_rcpt.
DR
DR
     InterPro; IPRO01277; CXC_4_rcpt.
     InterPro; IPR000276; GPCR Rhodpsn.
DR
     Pfam; PF00001; 7tm_1; 1.
DR
     PRINTS; PRO0657; CCCHEMOKINER.
DR
DR
     PRINTS; PRO0645; CXCCHMKINER4.
DR
     PRINTS; PR00237; GPCRRHODOPSN.
DR
     PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
     PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1. '
KW
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KW
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FT
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     TOPO DOM
FT
                        39
                                  Extracellular (Potential).
     TRANSMEM
                 40
                                  1 (Potential).
FT
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                 64
                        79
                                  Cytoplasmic (Potential).
FT
     TRANSMEM
                 80
                        99
                                  2 (Potential).
FT
     TOPO DOM
                100
                       110
                                  Extracellular (Potential).
FT
     TRANSMEM
                111
                        132
                                  3 (Potential).
FT
     TOPO DOM
                133
                        154
                                  Cytoplasmic (Potential).
     TRANSMEM
                155
                        175
                                  4 (Potential).
FT
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                176
                        200
                                  Extracellular (Potential).
     TRANSMEM
FT
                201
                        220
                                  5 (Potential).
FT
     TOPO DOM
                221
                       240
                                  Cytoplasmic (Potential).
FΤ
     TRANSMEM
                241
                        261
                                  6 (Potential).
FT
     TOPO DOM
                262
                        285
                                  Extracellular (Potential).
FT
     TRANSMEM
                286
                        305
                                  7 (Potential).
FT
     TOPO DOM
                306
                        352
                                  Cytoplasmic (Potential).
FT
     MOD RES
                 21
                        21
                                  Sulfotyrosine (Potential).
     CARBOHYD
                 11
                         11
                                  N-linked (GlcNAc. . .) (Potential).
FT
FΤ
     DISULFID
                109
                       186
                                  By similarity.
SO
     SEQUENCE
               352 AA; 39752 MW; 468E542E1851265A CRC64;
                          99.1%;
 Query Match
                                 Score 1813; DB 1; Length 352;
                         98.9%; Pred. No. 1.3e-131;
 Best Local Similarity
 Matches 348: Conservative
                                 4; Mismatches
                                                      Indels
Qу
            1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
              1 \ \mathsf{MEGISIYTSDNYTEEMGSGDYDSIKEPCFREENAHFNRIFLPTIYSIIFLTGIVGNGLVI \ 60
Db
           61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qy
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Db

61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120

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            121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFASVSEA 180
Db
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qγ
            Db
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Qу
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Db
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            Db
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                 PRELIMINARY;
                               PRT;
                                     352 AA.
    OBHZUO;
    01-MAR-2003, integrated into UniProtKB/TrEMBL.
DT
    01-MAR-2003, sequence version 1.
DT
    30-MAY-2006, entry version 19.
    Chemokine receptor CXCR4.
os
    Saimiri sciureus (Common squirrel monkey).
OC.
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC
    Platyrrhini; Cebidae; Saimiriinae; Saimiri.
OX
    NCBI_TaxID=9521;
    [1]
    NUCLEOTIDE SEQUENCE.
RP
    MEDLINE=22174698; PubMed=12186836; DOI=10.1084/jem.20020468;
RX
    LaBonte J.A., Babcock G.J., Patel T., Sodroski J.;
    "Blockade of HIV-1 infection of New World monkey cells occurs
RT
RT
    primarily at the stage of virus entry.";
    J. Exp. Med. 196:431-445(2002).
CC
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
    EMBL; AF452613; AAN14529.1; -; mRNA.
    GO; GO:0016021; C:integral to membrane; IEA.
DR
DR
    GO; GO:0016020; C:membrane; IEA.
    GO; GO:0016493; F:C-C chemokine receptor activity; IEA.
    GO; GO:0016494; F:C-X-C chemokine receptor activity; IEA.
DR
DR
    GO; GO:0004872; F:receptor activity; IEA.
    GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
    GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; IEA.
DR
DR
    GO; GO:0007165; P:signal transduction; IEA.
    InterPro; IPR000355; Chmkine_rcpt.
    InterPro; IPR001277; CXC 4 rcpt.
DR
DR
    InterPro; IPR000276; GPCR Rhodpsn.
    Pfam; PF00001; 7tm 1; 1.
    PRINTS; PRO0657; CCCHEMOKINER.
DR
    PRINTS; PRO0645; CXCCHMKINER4.
    PRINTS; PRO0237; GPCRRHODOPSN.
    PROSITE; PS00237; G PROTEIN RECEP F1 1; 1.
DR
DR
    PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
    G-protein coupled receptor; Membrane; Receptor; Transducer;
KW
    Transmembrane.
SO
    SEOUENCE
              352 AA; 39821 MW; BF1A21FB0C8D4487 CRC64;
                       98.9%; Score 1809; DB 2; Length 352;
 Best Local Similarity
                      98.6%; Pred. No. 2.7e-131;
 Matches 347; Conservative
                             4; Mismatches
                                                Indels
                                             1;
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Qу
            Db
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Qy
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Ον
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Db
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Qу
             181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Db
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qy
             Db
         241 TVILILAFFACWLPYYIGISIDSFILLEIIRQGCEFENTVHKWISITEALAFFHCCLNPI 300
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qy
             Db
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKI-LSKGKRGGHSSVSTESESSSFHSS 352
RESULT 7
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                   STANDARD:
                                 PRT:
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ID
    Q28474;
AC
    15-JUL-1998, integrated into UniProtKB/Swiss-Prot.
DT
DT
    01-NOV-1996, sequence version 1.
    18-APR-2006, entry version 35.
    C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (SDF-1 receptor)
DE
DE
    (Stromal cell-derived factor 1 receptor) (Fusin) (LESTR) (CD184
DE
    antigen).
GN
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OS
    Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
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    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC
OC
    Catarrhini; Cercopithecidae; Cercopithecinae; Macaca.
    NCBI TaxID=9541;
RN
    [1]
    NUCLEOTIDE SEQUENCE [MRNA].
RP
    Tatsumi M., Takahashi H.;
RT
    "Monkey CD4 and fusin are not species barrier for HIV-1 replication.";
RL
    Submitted (JUL-1996) to the EMBL/GenBank/DDBJ databases.
    -!- FUNCTION: Receptor for the C-X-C chemokine CXCL12/SDF-1.
CC
        Transduces a signal by increasing the intracellular calcium ions
CC
        level (By similarity).
CC
    -!- SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein.
CC
    -!- PTM: ·Sulfated (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
CC
    EMBL; D86579; BAA13126.1; -; mRNA.
DR
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    InterPro; IPR001277; CXC_4_rcpt.
DR
    InterPro; IPR000276; GPCR Rhodpsn.
DR
DΒ
    Pfam; PF00001; 7tm 1; 1.
    PRINTS; PRO0657; CCCHEMOKINER.
DR
    PRINTS; PR00645; CXCCHMKINER4.
DR
DR
    PRINTS; PRO0237; GPCRRHODOPSN.
DR
    PROSITE; PS00237; G PROTEIN RECEP F1 1; 1.
    PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
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KW
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KW
    Sulfation; Transducer; Transmembrane.
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                      352
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                                /FTId=PRO_0000069353.
FT
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FT
                 40
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                 64
                       79
                                Cytoplasmic (Potential).
FT
    TRANSMEM
                 80
                       99
                                2 (Potential).
    TOPO DOM
                                Extracellular (Potential).
FT
                100
                       110
FT
    TRANSMEM
                111
                       132
                                3 (Potential).
FT
    TOPO DOM
                133
                       154
                                Cytoplasmic (Potential).
FT
    TRANSMEM
                155
                       175
                                4 (Potential).
FΤ
    TOPO DOM
                176
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FΤ
    TRANSMEM
                201
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                                5 (Potential).
FT
    TOPO_DOM
                221
                       240
                                Cytoplasmic (Potential).
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TRANSMEM
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                     261
                              6 (Potential).
    TOPO_DOM
               262 -
                     285
                              Extracellular (Potential).
    TRANSMEM
FT
               286
                     305
                              7 (Potential).
FT
    TOPO DOM
               306
                     352
                              Cytoplasmic (Potential).
    MOD RES
               21
                      21
                              Sulfotyrosine (Potential).
                              N-linked (GlcNAc. . .) (Potential).
FT
    CARBOHYD
               11
                      11
    DISULFID
               109
FT
                     186
                              By similarity.
    SEQUENCE
              352 AA; 39753 MW; 432DA6C11859EF8A CRC64;
 Query Match
                       98.7%; Score 1806; DB 1; Length 352;
 Best Local Similarity 98.3%; Pred. No. 4.6e-131;
                             5; Mismatches
 Matches 346; Conservative
                                                                      0:
                                              1: Indels
                                                           0; Gaps
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Qу
            Db
          1 MEGISIYTSDNYTEEMGSGDYDSIKEPCFREENAHFNRIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYOKKLRSMTDKYRI.HLSVADI.LFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qу
            61 LVMGYQKKLRSMTDKYRLHLSVADLLYVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Ďb
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Qγ
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Db
Oν
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            Db
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        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qу
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    30-MAY-2006, entry version 31.
    CXCR4 receptor.
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    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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    Murayama Y., Matsunaga S., Inoue-Murayama M.;
    Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.
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CC
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
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    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
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    GO; GO:0016494; F:C-X-C chemokine receptor activity; IEA.
    GO; GO:0004872; F:receptor activity; IEA.
    GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
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start | next page

BuildDate: 11/17/2006

SCORE Search Results Details f

Score Home Page Retrieve Application List SCORE System Overview SCORE FAQ Comments / Sugg

This page gives you Search Results detail for the Application 10785230 and Search Result 2007020 start

GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

Run on: February 6, 2007, 14:15:46; Search time 26 Seconds

(without alignments)

1315.579 Million cell updates/sec

Title: US-10-785-230-1

Perfect score: 1830

Sequence: 1 MEGISIYTSDNYTEEMGSGD......KRGGHSSVSTESESSSFHSS 352

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR_80:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		75				
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2	1806	98.7	352	2	G00048	fusin (LESTRA) - c
3	1722.5	94.1	353	2	S28787	neuropeptide Y/pep
4	600.5	32.8	360	2	A57160	chemokine (C-C) re
5	582	31.8	367	2	JE0349	interferon-inducib
6	568	31.0	360	2	A53611	interleukin-8 rece
7	567	31.0	356	2	S42096	interleukin-8 rece
8	564.5	30.8	360	2	JC4587	chemokine (C-C) re
9	564	30.8	355	2	JQ1231	interleukin-8 rece
10	563	30.8	378	2	A55735	G protein-coupled
11	559.5	30.6	350	2	A39445	interleukin-8 rece
12	558	30.5	358	2	A53752	interleukin-8 rece
13	557	30.4	378	2	B55735	lymphocyte-specifi
14	549.5	30.0	355	2	JC4304	orphan G protein-c
15	544	29.7	327	2	S56162	MDCR15 protein - h
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17	539	29.5	359	2	A48921	interleukin-8 rece
18	538	29.4	378	2	A45680	G protein-coupled
19	536	29.3	374	2	S42628	. G protein-coupled

20	533.5	29.2	369	2	JC5068	G protein-coupled
21	529	28.9	374	2	S32785	G protein-coupled
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23	527	28.8	355	2	JC5067	G protein-coupled
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25	514.5	28.1	354	2	I58186	probable G protein
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27	509	27.8	355	2	G02436	chemokine (C-C) re
28	506	27.7	352	2	A43113	chemokine (C-C) re
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39	481	26.3	359	2	I49341	MIP-1 alpha recept
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ALIGNMENTS

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C;Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 09-Jul-2004
C; Accession: A45747; A53103; I53006; I59444; I69203; S32761
R; Federsppiel, B.; Melhado, I.G.; Duncan, A.M.V.; Delaney, A.; Schappert, K.; Clark-Lewis, I.; Jirik, F.R.
Genomics 16, 707-712, 1993
A; Title: Molecular cloning of the cDNA and chromosomal localization of the gene for a putative seven-transm
A; Reference number: A45747; MUID: 93315164; PMID: 8325644
A; Accession: A45747
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A;Cross-references: UNIPROT:P61073; UNIPARC:UPI000000106C; GB:M99293; NID:g292516; PIDN:AAA16617.1; PID:g29
R; Loetscher, M.; Geiser, T.; O'Reilly, T.; Zwahlen, R.; Baggiolini, M.; Moser, B.
J. Biol. Chem. 269, 232-237, 1994
A; Title: Cloning of a human seven-transmembrane domain receptor, LESTR, that is highly expressed in leukocy
A; Reference number: A53103; MUID:94103215; PMID:8276799
A; Accession: A53103
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A; Cross-references: UNIPARC: UPI000000106C; EMBL: X71635; NID: g297099; PIDN: CAA50641.1; PID: g297100
R; Herzog, H.; Hort, Y.J.; Shine, J.; Selbie, L.A.
DNA Cell Biol. 12, 465-471, 1993
A; Title: Molecular cloning, characterization, and localization of the human homolog to the reported bovine A; Reference number: I53006; MUID:93319629; PMID:8329116
A; Accession: I53006
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 1-352 <HER>
A; Cross-references: UNIPARC: UPI000000106C; GB: L06797; NID: g414929; PIDN: AAA03209.1; PID: g414928
R; Jazin, E.E.; Yoo, H.; Blomqvist, A.G.; Yee, F.; Weng, G.; Walker, M.W.; Salon; J.; Larhammar, D.; Wahlest
Regul. Pept. 47, 247-258, 1993
A; Title: A proposed bovine neuropeptide Y (NPY) receptor cDNA clone, or its human homologue, confers neithe
A; Reference number: I59444; MUID:94052833; PMID:8234909
A; Accession: I59444
A; Status: preliminary; translated from GB/EMBL/DDBJ
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A; Residues: 1-352 < RE2>
A; Cross-references: UNIPARC: UPI000000106C; GB:L01639; NID:q189313; PIDN:AAA16594.1; PID:q189314
R; Nomura, H.; Nielsen, B.W.; Matsushima, K.
Int. Immunol. 5, 1239-1249, 1993
A; Title: Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte chemotactic peptide rec
A; Reference number: I54751; MUID: 94092629; PMID: 7505609
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R; Tatsumi, M.
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C; Accession: S28787
R; Rimland, J.; Xin, W.; Sweetnam, P.; Saijoh, K.; Nestler, E.J.; Duman, R.S.
Mol. Pharmacol. 40, 869-875, 1991
A; Title: Sequence and expression of a neuropeptide Y receptor cDNA.
A; Reference number: S28787; MUID:92100053; PMID:1661837
A; Accession: S28787
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C; Accession: A57160
R; Power, C.A.; Meyer, A.; Nemeth, K.; Bacon, K.B.; Hoogewerf, A.J.; Proudfoot, A.E.I.; Wells, T.N.C.
J. Biol. Chem. 270, 19495-19500, 1995
A; Title: Molecular cloning and functional expression of a novel CC chemokine receptor cDNA from a human bas
A; Reference number: A57160; MUID: 95370289; PMID: 7642634
A: Accession: A57160
A; Status: preliminary; not compared with conceptual translation
A; Molecule type: mRNA
A; Residues: 1-360 < POW>
A; Cross-references: UNIPROT: P51679; UNIPARC: UPI000002DFE9; GB: X85740; NID: q1370103; PIDN: CAA59743.1; PID: q9
A; Note: source clone K5-5
C; Genetics:
A; Gene: GDB: CMKBR4
A; Cross-references: GDB:677463
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A; Map position: 3p21-3p21
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; glycoprotein; phosphoprotein; transmembrane protein
F;40-65/Domain: transmembrane #status predicted <TM1>
F;76-97/Domain: transmembrane #status predicted <TM2>
F;112-133/Domain: transmembrane #status predicted <TM3>
F;151-175/Domain: transmembrane #status predicted <TM4>
F;208-226/Domain: transmembrane #status predicted <TM5>
F;243-264/Domain: transmembrane #status predicted <TM6>
F;291-308/Domain: transmembrane #status predicted <TM7>
F;29-276,110-187/Disulfide bonds: #status predicted
F;72,350/Binding site: phosphate (Ser) (covalent) (by casein kinase II) #status predicted
F;145/Binding site: phosphate (Ser) (covalent) (by protein kinase C) #status predicted
F;183,194/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;321/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted
 Query Match
                       32.8%; Score 600.5; DB 2; Length 360;
 Best Local Similarity 39.7%; Pred. No. 1.5e-43;
 Matches 116; Conservative
                            60; Mismatches 113; Indels
         21 YDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVMGYQKKLRSMTDKYRLHL 80
Qγ
             Db
          22 YESIPKPCTKEGIKAFGELFLPPLYSLVFVFGLLGNSVVVLVLFKYKRLRSMTDVYLLNL 81
         81 SVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVLILAFISLDRYLAIVH 140
Qγ
            :::{|||| :||||
         82 AISDLLFVFSLPFWGYYAADQWVFGLGLCKMISWMYLVGFYSGIFFVMLMSIDRYLAIVH 141
Db
         141 ATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEADDRYICDRFYP--NDLWVVV 198
Qγ
                       : : | |: ::| |:|:
              1 1 1 1
         142 AVFSLRARTLTYGVITSLATWSVAVFASLPGFLFSTCYTERNHTYCKTKYSLNSTTWKVL 201
Db
         199 FQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTVILILAFFACWLPYYIG 258
Qy
               202 SSLEINILGLVIPLGIMLFCYSMIIRTLQHCKNEKKNKAVKMIFAVVVLFLGFWTPYNIV 261
         259 ISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPILYAFLGAKFK 310
Qу
            262 LFLETLVELEVL-QDCTFERYLDYAIQATETLAFVHCCLNPIIYFFLGEKFR 312
Db
RESULT 5
JE0349
interferon-inducible protein 10 (IP-10) receptor - mouse
C; Species: Mus musculus (house mouse)
C;Date: 05-Feb-1999 #sequence_revision 05-Feb-1999 #text_change 09-Jul-2004
C; Accession: JE0349
R; Tamaru, M.; Tominaga, Y.; Yatsunami, K.; Narumi, S.
Biochem. Biophys. Res. Commun. 251, 41-48, 1998
A; Title: Cloning of the murine interferon-inducible protein 10 (IP-10) receptor and its specific expression
A; Reference number: JE0349; MUID:99009219; PMID:9790904
A:Accession: JE0349
A; Molecule type: mRNA
A; Residues: 1-367 <TAM>
A;Cross-references: UNIPROT:Q9QWN6; UNIPARC:UPI0000029B69; DDBJ:AB003174; NID:q3798731; PIDN:BAA34045.1; PI
C; Comment: This protein is important for lymphocyte trafficking to lymphoid organs.
C; Superfamily: vertebrate rhodopsin
                       31.8%; Score 582; DB 2; Length 367; 35.6%; Pred. No. 5.7e-42;
 Query Match
 Best Local Similarity
                            70; Mismatches 133; Indels
 Matches 121; Conservative
                                                        16; Gaps
Qу
         15 EMGSGDYD-SMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVMGYQKKLRSMT 73
            Dh
         28 DYGENESDFSDSPPCPQDFSLNFDRTFLPALYSLLFLLGLLGNGAVAAVLLSQRTALSST 87
          74 DKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVLILAFISLD 133
Qy
             88 DTFLLHLAVADVLLVLTLPLWAVDAAVQWVFGPGLCKVAGALFNINFYAGAFLLACISFD 147
Db
         134 RYLAIVHATNSQR--PRKLLAEKVVYVGVWIPALLLTIPDFIF--ANVSEADDRYICDRF 189
Qy
             Db
         148 RYLSIVHATQIYRRDPRVRVA--LTCIVVWGLCLLFALPDFIYLSANYDQRLNATHCQYN 205
         190 YPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTVILILAFF 249
Qν
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: :: | :|| :|: || |:: | |:| :: :|:: |:: ||

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206 FP-OVGRTALRVLOLVAGFLLPLLVMAYCYAHILAVLLVSRGORRFRAMRLVVVVVAAFA 264
Db
         250 ACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPILYAFLGAKF 309
Qν
              265 VCWTPYHLVVLVDILMDVGVLARNCGRESHVDVAKSVTSGMGYMHCCLNPLLYAFVGVKF 324
Db
         310 KTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSF 349
Qγ
         325 REQMWMLFTRLGRSD------QRGPQRQPSSSRRESSW 356
Db
RESULT 6
A53611
interleukin-8 receptor type B - human
C; Species: Homo sapiens (man)
C;Date: 07-Oct-1994 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
C; Accession: I37898; I38712; A53611; A39446
R; Ahuja, S.K.; Shetty, A.; Tiffany, H.L.; Murphy, P.M.
J. Biol. Chem. 269, 26381-26389, 1994
A; Title: Comparison of the genomic organization and promoter function for human interleukin-8 receptors A a
A; Reference number: I37898; MUID:95014476; PMID:7929358
A; Accession: I37898
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-360 < RES>
A; Cross-references: UNIPROT: P25025; UNIPARC: UPI000004358A; EMBL: U11869; NID: g511801; PIDN: AAB60656.1; PID: g
A; Accession: I38712
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-15 < RE2>
A;Cross-references: UNIPARC:UPI000000053D; EMBL:U11872; NID:g511808; PIDN:AAA64380.1; PID:g511809; EMBL:U11
R;Sprenger, H.; Lloyd, A.R.; Lautens, L.L.; Bonner, T.I.; Kelvin, D.J.
J. Biol. Chem. 269, 11065-11072, 1994
A; Title: Structure, genomic organization, and expression of the human interleukin-8 receptor B gene.
A; Reference number: A53611; MUID:94209273; PMID:7512557
A; Accession: A53611
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 6-360 <SPR>
A;Cross-references: UNIPARC:UPI00000746D6; GB:M99412; GB:L19593
R; Murphy, P.M.; Tiffany, H.L.
Science 253, 1280-1283, 1991
A; Title: Cloning of complementary DNA encoding a functional human interleukin-8 receptor.
A; Reference number: A39446; MUID:91368200; PMID:1891716
A; Accession: A39446
A; Status: preliminary; nucleic acid sequence not shown
A; Molecule type: mRNA
A: Residues: 6-360 <MUR>
A;Cross-references: UNIPARC:UPI00000746D6; GB:M73969
C; Comment: This receptor, unlike IL8RA, binds several peptides besides interleukin-8, including GRO, NAP-2,
C; Genetics:
A;Gene: GDB:IL8RB; IL8RA
A;Cross-references: GDB:127868; OMIM:146928
A; Map position: 2q35-2q35
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
  Query Match 31.0%; Score 568; DB 2; Length 360; Best Local Similarity 35.3%; Pred. No. 8.7e-41;
  Matches 132; Conservative 69; Mismatches 119; Indels
                                                            54; Gaps
           9 SDNYT----EEMGSGDYDSM------KEPCFREENANFNKIFLPTIYSIIFLTGIVGN 56
Qу
             ||:: |:: | |
                                          11 1: 11 1: 11:::11 ::11
           8 SDSFEDFWKGEDLSNYSYSSTLPPFLLDAAPC-EPESLEINKYFVVIIYALVFLLSLLGN 66
Db
          57 GLVILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIY 116
Qγ
              Db
           67 SLVMLVILYSRVGRSVTDVYLLNLALADLLFALTLPIWAASKVNGWIFGTFLCKVVSLLK 126
          117 TVNLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIF-- 174
Qy
              127 EVNFYSGILLLACISVDRYLAIVHATRTLTQKRYLV-KFICLSIWGLSLLLALPVLLFRR 185
Db
          175 ----ANVSEADDRYICDRFYPNDL--WVVVFQFQHIMVGLILPGIVILSCYCIIISKLSH 228
Qу
                                 1: 1:::
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          186 TVYSSNVSPA-----CYEDMGNNTANWRMLLRILPQSFGFIVPLLIMLFCYGFTLRTLFK 240
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229 SKGHQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITE 288
Qν
                241 AHMGQKHRAMRVIFAVVLIFLLCWLPYNLVLLADTLMRTQVIQETCERRNHIDRALDATE 300
Db
         289 ALAFFHCCLNPILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTES---- 344
Qν
                 | ||||::|||:||||:||
                                              1111:
                                                         1 :1 :1
         301 ILGILHSCLNPLIYAFIGQKFR----HGL------LKILAI-
         345 -----ESSSFHSS 352
Qу
                   -111 - 1:1
         344 SRPSFVGSSSGHTS 357
Db
RESULT 7
S42096
interleukin-8 receptor - rat
C: Species: Rattus norvegicus (Norway rat)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 26-Aug-1999
C; Accession: S42096
R; Gobl, A.E.; Wang, S.; Zhou, Y.; Oeberg, K.
submitted to the EMBL Data Library, February 1994
A; Description: Molecular cloning of the rat IL8 receptor.
A; Reference number: S42096
A; Accession: S42096
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-356 <GOB>
A; Cross-references: UNIPARC: UPI00001778DE; EMBL: X77797
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
  Query Match 31.0%; Score 567; DB 2; Length 356; Best Local Similarity 36.3%; Pred. No. le-40;
  Matches 131; Conservative 68; Mismatches 126; Indels
                                                          36; Gaps
          10 DNYT-EEMGSGDYDSMK------EPCFREENANFNKIFLPTIYSIIFLTGIVGN 56
Qу
                                        11
Db
           7 DNFSLEDFFSGDIDSYNFSSDPPFTLSDAAPC-PSANLDINRYAVVVIYVLVTLLSLVGN 65
Qy
          57 GLVILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIY 116
              66 SLVMLVILYNRSTCSVTDVYLLNLAIADLFFALTLPVWAASKVNGWIFGSFLCKVFSFLQ 125
Db
         117 TVNLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFAN 176
Oν
              Db
        · 126 EITFYSSVLLLACISMDRYLAIVHATSTLIQKRHLV-KFVCITMWFLSLVLSLPIFILRT 184
         177 VSEAD-DRYICDRFYPN-----DLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSK 230
Qy
                    :1 1 1
                                   1 11 :
                                              1:11:::11
         185 TVKANPSTVVC---YENIGNNTSKWRVVLRILPQTYGFLLPLLIMLFCYGFTLRTLFKAH 241
Db
Qν
         231 GHQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEAL 290
               :1 1
         242 MGQKHRAMRVIFAVVLVFLLCWLPYNIVLFTDTLMRTKLIKETCERQNEINK---ASEIL 298
Db
         291 AFFHCCLNPILYAFLGAKFKTSAQHALTSVSRGSSLKILSK---GKRGGHSSVSTESESS 347
Qν
              11 11:1::
Db
         299 GFLHSCLNPIIYAFIGQKFR----HGLLKIM--ANYGLVSKEFLAKEGRPSFVGSSSANT 352
         348 S 348
Qу
         353 S 353
RESULT 8
JC4587
chemokine (C-C) receptor 4 - mouse
C; Species: Mus musculus (house mouse)
C;Date: 08-Mar-1996 #sequence_revision 19-Apr-1996 #text_change 09-Jul-2004
C; Accession: JC4587
R; Hoogewerf, A.J.; Black, D.; Proudfoot, A.E.I.; Wells, T.N.C.; Power, C.A.
Biochem. Biophys. Res. Commun. 218, 337-343, 1996
A; Title: Molecular cloning of murine CC CKR-4 and high affinity binding of chemokines to murine and human C
A; Reference number: JC4587; MUID:96136324; PMID:8573157
A; Accession: JC4587
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A; Molecule type: mRNA
A; Residues: 1-360 < HOO>
A; Cross-references: UNIPROT: P51680; UNIPARC: UPI0000028F3B; EMBL: X90862; NID: g1167851; PIDN: CAA62372.1; PID:
A; Experimental source: thymus
C:Genetics:
A; Gene: cc ckr-4
C; Superfamily: vertebrate rhodopsin
C; Keywords: glycoprotein; phosphoprotein; receptor; thymus
F;2,183,194/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;72,202,350/Binding site: phosphate (Ser) (covalent) (by casein kinase II) #status predicted
F;145/Binding site: phosphate (Ser) (covalent) (by protein kinase C) #status predicted
F;321/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted
                        30.8%; Score 564.5; DB 2; Length 360;
  Best Local Similarity 37.3%; Pred. No. 1.7e-40;
 Matches 109; Conservative 63; Mismatches 117; Indels
          21 YDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVMGYQKKLRSMTDKYRLHL 80
Qу
             22 YESMPKPCTKEGIKAFGEVFLPPLYSLVFLLGLFGNSVVVLVLFKYKRLKSMTDVYLLNL 81
Db
          81 SVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVLILAFISLDRYLAIVH 140
Qу
             Db
          82 AISDLLFVLSLPFWGYYAADQWVFGLGLCKIVSWMYLVGFYSGIFFIMLMSIDRYLAIVH 141
         141 ATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEADDRYICDRFYP--NDLWVVV 198
Qу
             | | : | | : : | |: ::| :|:
                                                 : 1 1 : 11:
Db
         142 AVFSLKARTLTYGVITSLITWSVAVFASLPGLLFSTCYTEHNHTYCKTQYSVNSTTWKVL 201
         199 FQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTVILILAFFACWLPYYIG 258
Qν
                : ::||::| ::| |:|| | | | | | :| :|:: | | | | | | | :|
         202 SSLEINVLGLLIPLGIMLFWYSMIIRTLQHCKNEKKNRAVRMIFGVVVLFLGFWTPYNVV 261
Db
         259 ISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPILYAFLGAKFK 310
Qy
             262 LFLETLVELEVL-QDCTLERYLDYAIQATETLGFIHCCLNPVIYFFLGEKFR 312
RESULT 9
J01231
interleukin-8 receptor - rabbit
C; Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 09-Jul-2004
C; Accession: JQ1231; A46483
R; Beckmann, M.P.; Munger, W.E.; Kozlosky, C.; VandenBos, T.; Price, V.; Lyman, S.; Gerard, N.P.; Gerard, C.
Biochem. Biophys. Res. Commun. 179, 784-789, 1991
A; Title: Molecular characterization of the interleukin-8 receptor.
A; Reference number: JQ1231; MUID:91378994; PMID:1898400
A; Accession: JQ1231
A; Molecule type: DNA
A; Residues: 1-355 <BEC>
A; Cross-references: UNIPROT: P21109; UNIPARC: UPI000012D4ED; GB: M74240; NID: g165438; PIDN: AAA31375.1; PID: g16
R;Lee, J.; Kuang, W.J.; Rice, G.C.; Wood, W.I. J. Immunol. 148, 1261-1264, 1992
A; Title: Characterization of complementary DNA clones encoding the rabbit IL-8 receptor.
A; Reference number: A46483; MUID:92148149; PMID:1737938
A: Accession: A46483
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-355 <LEE>
A; Cross-references: UNIPARC: UPI000012D4ED; GB: M82873; NID: g165440; PIDN: AAA31376.1; PID: g165441
A; Experimental source: neutrophils
A; Note: sequence extracted from NCBI backbone (NCBIN:81526, NCBIP:81530)
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
                       . 30.8%; Score 564; DB 2; Length 355;
 Best Local Similarity 35.0%; Pred. No. 1.9e-40;
 Matches 123; Conservative 71; Mismatches 149; Indels
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           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
             1::1: 1: 11
                                             - || : ||:::|| ::|| ||:
           8 MTDLWTWFEDEFANATGMPPVEKDYSPCL-VVTQTLNKYVVVVIYALVFLLSLLGNSLVM 66
Db
          61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Οv
             [ ] [ ] [ ] [ ] [ ] [ ]
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67 LVILYSRSNRSVTDVYLLNLAMADLLFALTMPIWAVSKEKGWIFGTPLCKVVSLVKEVNF 126
Db
         121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV-SE 179
Qу
             Db
         127 YSGILLLACISVDRYLAIVHATRTLTQKRHLV-KFICLGIWALSLILSLPFFLFRQVFSP 185
         180 ADDRYIC--DRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKA 237
Qу
                                      1 111 :1:1 11 : 1 :
Db
         186 NNSSPVCYEDLGHNTAKWRMVLRILPHTFGFILPLLVMLFCYGFTLRTLFQAHMGQKHRA 245
         238 LKTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCL 297
Qу
                Db
         246 MRVIFAVVLIFLLCWLPYNLVLLADTLMRTHVIQETCQRRNDIDRALDATEILGFLHSCL 305
         298 NPILYAFLGAKFKTSAQHALTSVSRG-SSLKILSKGKRGGHSSVSTESESS 347
Qγ
                           306 NPIIYAFIGQNFRNGFLKML--AARGLISKEFLTRHRVTSYTSSSTNVPSN 354
RESULT 10
A55735
G protein-coupled receptor EBI1 - mouse
C; Species: Mus musculus (house mouse)
C;Date: 07-Jul-1995 #sequence revision 07-Jul-1995 #text change 09-Jul-2004
C; Accession: A55735
R; Schweickart, V.L.; Raport, C.J.; Godiska, R.; Byers, M.G.; Eddy Jr., R.L.; Shows, T.B.; Gray, P.W.
Genomics 23, 643-650, 1994.
A; Title: Cloning of human and mouse EBI1, a lymphoid-specific G-protein-coupled receptor encoded on human c
A; Reference number: A55735; MUID: 95154835; PMID: 7851893
A: Accession: A55735
A; Status: preliminary
A; Molecule type: mRNA
A: Residues: 1-378 <SCH>
A; Cross-references: UNIPROT: P47774; UNIPARC: UPI00000274D1; GB: L31580; NID: g468340; PIDN: AAA74232.1; PID: g46
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor
  Ouery Match
                       30.8%; Score 563; DB 2; Length 378;
  Best Local Similarity 34.1%; Pred. No. 2.4e-40;
 Matches 119; Conservative 77; Mismatches 147; Indels
                                                            6; Gaps
Qу
           9 SDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVMGYQKK 68
             29 TDDYIGENTTVDYTLYESVCFKKDVRNFKAWFLPLMYSVICFVGLLGNGLVILTYIYFKR 88
Db
          69 LRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVLILA 128
Qy
             1::||| | |:|:|||:||:
                                        89 LKTMTDTYLLNLAVADILFLLILPFWAYSEAKSWIFGVYLCKGIFGIYKLSFFSGMLLLL 148
Db
Qу
         129 FISLDRYLAIVHAT--NSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV--SEADDRY 184
              149 CISIDRYVAIVQAVSRHRHRARVLLISKLSCVGIWMLALFLSIPELLYSGLQKNSGEDTL 208
Db
         185 ICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTVIL 244
Qу
                      :: |
                             -:: | ::| : : | | | | | | | | | :: :: | | : | : :
         209 RCSLVSAQVEALITIQVAQMVFGFLVPMLAMSFCYLIIIRTLLQARNFERNKAIKVIIAV 268
Db
         245 ILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPILYAF 304
Qy
                   111
                                       11
                                           ::
                                                  :1:11
                                                          11:11 1111
Db
         269 VVVFIVFQLPYNGVVLAQTVANFNITNSSCETSKQLNIAYDVTYSLASVRCCVNPFLYAF 328
Qу
         305 LGAKFKTSAQHALTSVSRGSS--LKILSKGKRGGHSSVSTESESSSFHS 351
                         : | |: | : ::||| |::::
         329 IGVKFRSDLFKLFKDLGCLSQERLRHWSSCRHVRNASVSMEAETTTTFS 377
Db
RESULT 11
A39445
interleukin-8 receptor type A - human
N; Alternate names: interleukin-8 receptor, high-affinity
C; Species: Homo sapiens (man)
C;Date: 22-Jan-1993 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004 C;Accession: I37449; I38710; I38711; A39445
R; Mollereau, C.; Muscatelli, F.; Mattei, M.G.; Vassart, G.; Parmentier, M.
Genomics 16, 248-251, 1993
A; Title: The high-affinity interleukin 8 receptor gene (IL8RA) maps to the 2q33-q36 region of the human gen
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A; Reference number: I37449; MUID: 93252387; PMID: 8486366
A; Accession: I37449
A; Molecule type: DNA
A; Residues: 1-350 < RES>
A; Cross-references: UNIPROT: P25024; UNIPARC: UPI0000050457; EMBL: X65858; NID: g312046; PIDN: CAA46688.1; PID: g
R; Ahuja, S.K.; Shetty, A.; Tiffany, H.L.; Murphy, P.M.
J. Biol. Chem. 269, 26381-26389, 1994
A; Title: Comparison of the genomic organization and promoter function for human interleukin-8 receptors A a
A; Reference number: I37898; MUID:95014476; PMID:7929358
A; Accession: I38710
A; Molecule type: DNA
A; Residues: 1-350 <RE2>
A; Cross-references: UNIPARC: UPI0000050457; EMBL: U11870; NID: g511804; PIDN: AAA64378.1; PID: g511805
A; Accession: I38711
A; Molecule type: mRNA
A; Residues: 1-16 < RE3>
A; Cross-references: UNIPARC: UPI000000053C; EMBL: U11871; NID: g511806; PIDN: AAA64379.1; PID: g733002
R; Holmes, W.E.; Lee, J.; Kuang, W.J.; Rice, G.C.; Wood, W.I.
Science 253, 1278-1280, 1991
A; Title: Structure and functional expression of a human interleukin-8 receptor.
A; Reference number: A39445; MUID:91368199; PMID:1840701
A; Accession: A39445
A; Molecule type: mRNA
A; Residues: 1-275, 'T', 277-350 <HOL>
A; Cross-references: UNIPARC: UPI0000043589; GB: M68932; NID: g186369; PIDN: AAA59159.1; PID: g186370
C; Genetics:
A; Gene: GDB: IL8RA
A; Cross-references: GDB:135039; OMIM:146929
A; Map position: 2q35-2q35
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; glycoprotein; membrane protein
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C; Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C: Accession: A53752
R; Prado, G.N.; Thomas, K.M.; Suzuki, H.; LaRosa, G.J.; Wilkinson, N.; Folco, E.; Navarro, J.
J. Biol. Chem. 269, 12391-12394, 1994
A; Title: Molecular characterization of a novel rabbit interleukin-8 receptor isotype.
A; Reference number: A53752; MUID: 94230294; PMID: 8175642
A:Accession: A53752
A; Status: preliminary
A; Molecule type: mRNA
A:Residues: 1-358 <PRA>
A;Cross-references: UNIPROT:P35344; UNIPARC:UPI000012D4F4; GB:L24445; NID:g437661; PIDN:AAA31378.1; PID:g43
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C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
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C; Species: Homo sapiens (man)
C;Date: 07-Jul-1995 #sequence_revision 07-Jul-1995 #text_change 09-Jul-2004
C; Accession: B55735; S52443
R;Schweickart, V.L.; Raport, C.J.; Godiska, R.; Byers, M.G.; Eddy Jr., R.L.; Shows, T.B.; Gray, P.W.
Genomics 23, 643-650, 1994
A; Title: Cloning of human and mouse EBI1, a lymphoid-specific G-protein-coupled receptor encoded on human c
A; Reference number: A55735; MUID: 95154835; PMID: 7851893
A:Accession: B55735
A; Status: preliminary
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A;Cross-references: UNIPROT:P32248; UNIPARC:UPI0000001C2F; GB:L31581; NID:g468319; PIDN:AAA74231.1; PID:g46
R; Burgstahler, R.; Kempkes, B.; Staeube, K.; Lipp, M.
submitted to the EMBL Data Library, February 1995
A;Description: The expression of the chemokine receptor BLR2/EBI1 is specifically transactivated by Epstein
A; Reference number: S52443
A; Accession: S52443
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 21-378 <BUR>
A; Cross-references: UNIPARC: UPI000014DEAD; EMBL: X84702
C; Genetics:
A; Gene: GDB: CMKBR7; EBI1; BLR2; CCR7
A;Cross-references: GDB:342065; OMIM:600242
 A; Map position: 17q12-17q21.2
 C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor
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C; Species: Homo sapiens (man)
C;Date: 16-Nov-1995 #sequence_revision 08-Feb-1996 #text_change 09-Jul-2004
C; Accession: JC4304
R; Raport, C.J.; Schweickart, V.L.; Eddy Jr., R.L.; Shows, T.B.; Gray, P.W.
Gene 163, 295-299, 1995
A; Title: The orphan G-protein-coupled receptor-encoding gene V28 is closely related to genes for chemokine
A; Reference number: JC4304; MUID: 96011651; PMID: 7590284
A:Accession: JC4304
A; Molecule type: mRNA
A; Residues: 1-355 < RAP>
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A; Experimental source: peripheral blood mononuclear cell
C; Comment: This protein is a cell-surface receptor which recognizes extracellular signals and transduces th
C;Comment: This protein is a key regulator of many immune and homeostatic responses, and interacts between
C; Genetics:
A;Gene: v28
A; Map position: 3pter-p21
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; lymphokine; transmembrane protein
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F;104-125/Domain: transmembrane #status predicted <TM3>
F;146-165/Domain: transmembrane #status predicted <TM4>
F;197-217/Domain: transmembrane #status predicted <TM5>
F;230-254/Domain: transmembrane #status predicted <TM6>
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  Best Local Similarity
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MDCR15 protein - human
C; Species: Homo sapiens (man)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 08-Oct-1999
C: Accession: S56162
R; Barella, L.; Loetscher, M.; Tobler, A.; Baggiolini, M.; Moser, B.
Biochem. J. 309, 773-779, 1995
A; Title: Sequence variation of a novel heptahelical leucocyte receptor through alternative transcript forma
A; Reference number: S56162; MUID: 95366951; PMID: 7639692
A; Accession: S56162
A; Status: preliminary; nucleic acid sequence not shown
A; Molecule type: mRNA
A; Residues: 1-327 <BAR>
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Oν
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Search completed: February 6, 2007, 14:23:54
Job time : 26.744 secs
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start

SCORE Search Results Details for Application 10785230 and Search Result 20070206_074033_us-10-785-230-1.rapbm.

Score Home Page **Retrieve Application**

SCORE System
Overview

SCORE FAQ Comments / Suggestions

This page gives you Search Results detail for the Application 10785230 and Search Result 20070206_074033_us-10-785-230-1.rapbm.

start

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GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

Run on: February 6, 2007, 14:24:16; Search time 134 Seconds

(without alignments)

1215.298 Million cell updates/sec

Title: US-10-785-230-1

Perfect score: 1830

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Gapop 10.0 , Gapext 0.5

Searched: 2097797 segs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1830	100.0	352	3	US-09-953-717-2	Sequence 2, Appli
3	1830	100.0	352	3	US-09-104-063-4	Sequence 4, Appli
4	1830	100.0	352	3	US-09-813-651B-85	Sequence 85, Appl
5	1830	100.0	352	4	US-10-151-274-4	Sequence 4, Appli
6	1830	100.0	352	4	US-10-225-567A-76	Sequence 76, Appl
7	1830	100.0	352	4	US-10-245-850-1	Sequence 1, Appli
8	1830	100.0	352	4	US-10-251-703-38	Sequence 38, Appl
9	1830	100.0	352	4	US-10-021-660-123	Sequence 123, App
10	1830	100.0	352	4	US-10-014-322A-126	Sequence 126, App

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ALIGNMENTS

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; Sequence 2, Application US/09953692
 Patent No. US20020107195A1
; GENERAL INFORMATION:
  APPLICANT: Shalley, Gupta K.
  TITLE OF INVENTION: Method for Inducing Chemotaxis in Endothelial Cells by
  TITLE OF INVENTION: Administering Stromal Cell Derived Factor-1(
  FILE REFERENCE: P50676C1
  CURRENT APPLICATION NUMBER: US/09/953,692
  CURRENT FILING DATE:
                      2001-09-17
  PRIOR APPLICATION NUMBER: 09/358,624
  PRIOR FILING DATE: 1999-07-21
  PRIOR APPLICATION NUMBER: 60/093,596
  PRIOR FILING DATE: 1998-07-21
  NUMBER OF SEQ ID NOS: 6
  SOFTWARE: FastSEQ for Windows Version 3.0
 SEO ID NO 2
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Human
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; Sequence 2, Application US/09953717
; Patent No. US20020107196A1
; GENERAL INFORMATION:
 APPLICANT: Shalley, Gupta K.
  TITLE OF INVENTION: Method for Inducing Chemotaxis in Endothelial Cells by
  TITLE OF INVENTION: Administering Stromal Cell Derived Factor-1(
  FILE REFERENCE: P50676D1
  CURRENT APPLICATION NUMBER: US/09/953,717
  CURRENT FILING DATE: 2001-09-17
  PRIOR APPLICATION NUMBER: 09/358,624
  PRIOR FILING DATE: 1999-07-21
  PRIOR APPLICATION NUMBER: 60/093,596
  PRIOR FILING DATE: 1998-07-21
  NUMBER OF SEQ ID NOS: 6
  SOFTWARE: FastSEQ for Windows Version 3.0
; SEO ID NO 2
   LENGTH: 352
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   ORGANISM: Human
US-09-953-717-2
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RESULT 3
US-09-104-063-4
; Sequence 4, Application US/09104063
 Patent No. US20020168356A1
  GENERAL INFORMATION:
   APPLICANT: Lee, James
   APPLICANT: Wood, WIlliam I.
   TITLE OF INVENTION: PF4A Receptors
```

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NUMBER OF SEQUENCES:
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Genentech, Inc.
      STREET: 1 DNA Way
      CITY: South San Francisco
      STATE: California
      COUNTRY: USA
      ZIP: 94080
    COMPUTER READABLE FORM:
      MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: WinPatin (Genentech)
    CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/09/104,063
      FILING DATE: 24-June-1998
      CLASSIFICATION:
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 08/701265
      FILING DATE: 22-AUG-1996
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 08/664228
      FILING DATE: 06-JUN-1996
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 08/076093
      FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 07/810782
      FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
      REGISTRATION NUMBER: 34,659
      REFERENCE/DOCKET NUMBER: P0706P2C2
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 415/225-5530
      TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 352 amino acids
      TYPE: Amino Acid
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US-09-104-063-4
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RESULT 4
US-09-813-651B-85
; Sequence 85, Application US/09813651B
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; Publication No. US20030018438A1
; GENERAL INFORMATION:
  APPLICANT: Nestor, John
  APPLICANT: Wilson, Carol
  APPLICANT: Tan Hehir, Christina
  APPLICANT: Kates, Steven
  TITLE OF INVENTION: Binding Compounds and Methods for Identifying Binding Compounds
  FILE REFERENCE: CNS-007
  CURRENT APPLICATION NUMBER: US/09/813,651B
  CURRENT FILING DATE: 2001-03-20
  PRIOR APPLICATION NUMBER: US 60/190,946
  PRIOR FILING DATE: 2000-03-21
  PRIOR APPLICATION NUMBER: US 60/190,996
  PRIOR FILING DATE: 2000-03-21
  PRIOR APPLICATION NUMBER: US 60/191,299
  PRIOR FILING DATE: 2000-03-21
  NUMBER OF SEQ ID NOS: 85
  SOFTWARE: PatentIn version 3.0
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   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-09-813-651B-85
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RESULT 5
US-10-151-274-4
; Sequence 4, Application US/10151274
; Publication No. US20030064071A1
; GENERAL INFORMATION:
  APPLICANT: Littman, Dan R.
  APPLICANT: Kwon, Douglas S.
  APPLICANT: van Kooyk, Yvette
  APPLICANT: Geijtenbeck, Tneo
  TITLE OF INVENTION: METHODS OF USING A FACILITATOR OF RETROVIRAL ENTRY
  TITLE OF INVENTION: INTO
  TITLE OF INVENTION: CELLS
  FILE REFERENCE: 1049-1-017
  CURRENT APPLICATION NUMBER: US/10/151,274
  CURRENT FILING DATE: 2002-05-20
  PRIOR APPLICATION NUMBER: US/09/517,605
  PRIOR FILING DATE: 2000-03-02
  NUMBER OF SEQ ID NOS: 17
  SOFTWARE: PatentIn Ver. 2.0
 SEO ID NO 4
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
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RESULT 6
US-10-225-567A-76
; Sequence 76, Application US/10225567A
; Publication No. US20030113798A1
 GENERAL INFORMATION:
  APPLICANT: LifeSpan Biosciences
  APPLICANT: Brown, Joseph P.
  APPLICANT: Burmer, Glenna C.
  APPLICANT: Roush, Christine L.
  TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS (GPCRS)
  FILE REFERENCE: 1920-4-4
  CURRENT APPLICATION NUMBER: US/10/225,567A
  CURRENT FILING DATE: 2001-12-19
  PRIOR APPLICATION NUMBER: 60/257,144
  PRIOR FILING DATE: 2000-12-19
  NUMBER OF SEQ ID NOS: 2292
  SOFTWARE: PatentIn version 3.1
 SEQ ID NO 76
   LENGTH: 352
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   ORGANISM: Homo sapiens
US-10-225-567A-76
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RESULT 7
US-10-245-850-1
; Sequence 1, Application US/10245850
; Publication No. US20030124628A1
; GENERAL INFORMATION:
  APPLICANT: Burns, Jennifer M.
  APPLICANT: Miao, Zhenhua
  APPLICANT: Wei, Zheng
APPLICANT: Howard, Maureen C.
  APPLICANT: Premack, Brett A.
  APPLICANT: Schall, Thomas J. APPLICANT: ChemoCentryx, Inc.
  TITLE OF INVENTION: Compositions and Methods for Detecting and Treating
  TITLE OF INVENTION: Diseases and Conditions Related to Chemokine Receptors
  FILE REFERENCE: 019934-003310US
  CURRENT APPLICATION NUMBER: US/10/245,850
  CURRENT FILING DATE: 2002-09-16
  PRIOR APPLICATION NUMBER: US 60/338,100
  PRIOR FILING DATE: 2001-11-30
  NUMBER OF SEQ ID NOS: 3.
  SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 1
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
   FEATURE:
   OTHER INFORMATION: CXCR4 chemokine receptor
US-10-245-850-1
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RESULT 8
US-10-251-703-38
; Sequence 38, Application US/10251703
 Publication No. US20030148449A1
; GENERAL INFORMATION:
  APPLICANT: Kuliopulos, Athan
  APPLICANT: Covic, Lidija
  TITLE OF INVENTION: G Protein Coupled Receptor Agonists and Antagonists and
  TITLE OF INVENTION: Methods of Activating and Inhibiting G Protein Coupled
  TITLE OF INVENTION: Receptors Using the Same
  FILE REFERENCE: NEMC-215 CIP
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CURRENT APPLICATION NUMBER: US/10/251,703
  CURRENT FILING DATE: 2002-09-20
  PRIOR APPLICATION NUMBER: 09/841,091
  PRIOR FILING DATE: 2001-04-23
  PRIOR APPLICATION NUMBER: 60/198,993
  PRIOR FILING DATE: 2000-04-21
  NUMBER OF SEQ ID NOS: 41
  SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 38
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Artificial Sequence
   FEATURE:
   OTHER INFORMATION: Description of Artificial Sequence: Pepducin
   OTHER INFORMATION: Peptide Sequence
US-10-251-703-38
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RESULT 9
US-10-021-660-123
; Sequence 123, Application US/10021660
; Publication No. US20030152926A1
; GENERAL INFORMATION:
  APPLICANT: Murray, Richard
  APPLICANT:, Glynne, Richard
  APPLICANT: Watson, Susan R.
APPLICANT: EOS Biotechnology, Inc.
  TITLE OF INVENTION: No. US20030152926Alel Methods of Diagnosis of Angiogenesis,
  TITLE OF INVENTION: Compositions and Methods of Screening for Angiogenesis
  TITLE OF INVENTION: Modulators
  FILE REFERENCE: 018501-000710US
  CURRENT APPLICATION NUMBER: US/10/021,660
  CURRENT FILING DATE: 2001-12-06
  PRIOR APPLICATION NUMBER: US/09/784,356
  PRIOR FILING DATE: 2001-02-14
  PRIOR APPLICATION NUMBER: US 09/637,977
  PRIOR FILING DATE: 2000-08-11
  NUMBER OF SEQ ID NOS: 135
  SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 123
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-021-660-123
                       100.0%; Score 1830; DB 4; Length 352;
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RESULT 10
US-10-014-322A-126
; Sequence 126, Application US/10014322A
; Publication No. US20030167129A1
 GENERAL INFORMATION:
 APPLICANT: Nestor, Jr., John
  APPLICANT: Wilson, Carol
  APPLICANT: Tan Hehir, Christina
  APPLICANT: Kates, Steven
  APPLICANT: Krstenansky, John
  TITLE OF INVENTION: Binding Compounds and Methods for Identifying Binding Compounds
  FILE REFERENCE: CNS-008
  CURRENT APPLICATION NUMBER: US/10/014,322A
  CURRENT FILING DATE: 2002-07-08
  PRIOR APPLICATION NUMBER: US 60/243,587
  PRIOR FILING DATE: 2000-10-27
  PRIOR APPLICATION NUMBER: US 09/813,651
  PRIOR FILING DATE: 2001-03-20
  PRIOR APPLICATION NUMBER: US 09/813,653
  PRIOR FILING DATE: 2001-03-20
  PRIOR APPLICATION NUMBER: US 09/813,448
  PRIOR FILING DATE: 2001-03-20
  NUMBER OF SEQ ID NOS: 126
  SOFTWARE: PatentIn version 3.0
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   ORGANISM: Homo sapiens
US-10-014-322A-126
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; Sequence 79, Application US/10239423
 Publication No. US20030186889A1
; GENERAL INFORMATION:
  APPLICANT: FORSSMANN, Wolf-Georg; FORSSMANN, Ulf; ADERMANN, Knut;
  APPLICANT: HEITLAND, Aleksandra; SPODSBERG, Nikolaj
  TITLE OF INVENTION: Diagnostic Agent and Medicament for Examining the
  TITLE OF INVENTION: Cell Surface Proteome of Tumor and Inflammation Cells and
  TITLE OF INVENTION: for Treating Tumor Diseases and Inflammatory Diseases,
  TITLE OF INVENTION: Preferably with the Aid of Specific Chemokine
  TITLE OF INVENTION: Receptor Analysis and Chemokine Receptor/Ligand Interaction
  FILE REFERENCE: 022217us
  CURRENT APPLICATION NUMBER: US/10/239,423
  CURRENT FILING DATE: 2002-09-23.
  PRIOR APPLICATION NUMBER: DE10016013.1
  PRIOR FILING DATE: 2000-03-31
  NUMBER OF SEQ ID NOS: 84
  SOFTWARE: PatentIn Ver. 2.1
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; Sequence 331, Application US/10170385
; Publication No. US20030203372A1
 GENERAL INFORMATION:
  APPLICANT: Ward, Neil Raymond
  APPLICANT: Mundy, Christopher Robert
  APPLICANT:
            Kan, On
  APPLICANT:
            Harris, Robert Alan
  APPLICANT:
            White, Jonathan
```

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APPLICANT: Binley, Katie Mary
  APPLICANT: Rayner, William Nigel
  APPLICANT: Naylor, Stuart
  APPLICANT: Kingsman, Susan Mary
  APPLICANT: Krige, David
  TITLE OF INVENTION: ANALYSIS METHOD
  FILE REFERENCE: 532682000100
  CURRENT APPLICATION NUMBER: US/10/170,385
  CURRENT FILING DATE: 2002-06-12
  PRIOR APPLICATION NUMBER: PCT/GB02/01662
  PRIOR FILING DATE: 2002-04-08
  PRIOR APPLICATION NUMBER: PCT/GB01/05458
  PRIOR FILING DATE: 2001-12-10
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; Sequence 3, Application US/10160401
; Publication No. US20030207281A1
: GENERAL INFORMATION:
 APPLICANT: Genaissance Pharmaceuticals, Inc.
  APPLICANT: Bentivegna, Steven C.
  APPLICANT: Bieglecki, Karyn M.
  APPLICANT: Koshy, Beena
  APPLICANT: Monroe, Glen
  APPLICANT: Rounds, Eileen
  TITLE OF INVENTION: HAPLOTYPES OF THE CXCR4 GENE
  FILE REFERENCE: MWH-0121US
  CURRENT APPLICATION NUMBER: US/10/160,401
  CURRENT FILING DATE: 2002-05-03
  PRIOR APPLICATION NUMBER: PCT/US01/12268
  PRIOR FILING DATE: 2001-04-13
  PRIOR APPLICATION NUMBER: US 60/197,025
  PRIOR FILING DATE: 2000-04-13
  NUMBER OF SEQ ID NOS: 31
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; Sequence 178, Application US/10341434
; Publication No. US20030215835A1
; GENERAL INFORMATION:
  APPLICANT: OriGene Technologies
  TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes
  FILE REFERENCE: 9U 204 205 R1
  CURRENT APPLICATION NUMBER: US/10/341,434
  CURRENT FILING DATE: 2003-07-18
  PRIOR APPLICATION NUMBER: US 60/348,164
  PRIOR FILING DATE: 2002-01-15
  PRIOR APPLICATION NUMBER: US 60/348,119
  PRIOR FILING DATE: 2002-01-15
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; Sequence 2, Application US/10372683
; Publication No. US20040009171A1
; GENERAL INFORMATION:
  APPLICANT: GERRITSEN, MARY E.
  APPLICANT: PEALE JR., FRANKLIN V.
  APPLICANT: WU, THOMAS D.
  TITLE OF INVENTION: METHODS FOR THE TREATMENT OF CARCINOMA
  FILE REFERENCE: P1928R1P1
  CURRENT APPLICATION NUMBER: US/10/372,683
  CURRENT FILING DATE: 2003-02-21
  PRIOR APPLICATION NUMBER: US 10/271,690
  PRIOR FILING DATE: 2002-10-16
  PRIOR APPLICATION NUMBER: US 60/344,534
  PRIOR FILING DATE: 2001-10-18
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SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10785230 and Search Result 20070206 074037 us-10-785-230-1.rapbn.

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SCORE FAQ

Comments / <u>Suggestions</u>

This page gives you Search Results detail for the Application 10785230 and Search Result 20070206_074037_us-10-785-230-1.rapbn.

start

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GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

February 6, 2007, 14:25:40; Search time 41 Seconds Run on:

(without alignments)

1194.020 Million cell updates/sec

Title: US-10-785-230-1

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Gapop 10.0 , Gapext 0.5

571941 seqs, 137706945 residues Searched:

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Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1830	100.0	352	6	US-10-511-937-2486	Sequence 2486, Ap
3	1830	100.0	352	6	US-10-511-937-2935	Sequence 2935, Ap
4	1830	100.0	352	6	US-10-511-937-3010	Sequence 3010, Ap
5	1830	100.0	352	6	US-10-219-051B-9078	Sequence 9078, Ap
6	1830	100.0	352	6	US-10-219-051B-9082	Sequence 9082, Ap
7	1830	100.0	352	7	US-11-371-354-68409	Sequence 68409, A
8	1827	99.8	363	6	US-10-545-557-19	Sequence 19, Appl

9 1824 99.7 US-11-404-939-485 Sequence 485, App 10 1785 97.5 US-10-540-898-921 348 Sequence 921, App 11 1678.5 91.7 359 US-11-437-734-2 Sequence 2, Appli 1673 91.4 Sequence 9076, Ap 12 349 US-10-219-051B-9076 13 1673 91.4 US-10-219-051B-9080 Sequence 9080, Ap 349 14 1671.5 91.3 352 7 US-11-437-734-8 Sequence 8, Appli 15 1633.5 89.3 355 US-10-540-898-918 Sequence 918, App 1100.5 US-11-437-734-4 16 60.1 230 Sequence 4, 17 1042 56.9 209 7 US-11-214-063A-688 Sequence 688, App 18 850 46.4 188 US-11-437-734-6 Sequence 6, Appli 19 600.5 32.8 360 6 US-10-581-413-1 Sequence 1, Appli 20 581.5 31.8 359 US-10-219-051B-13793 Sequence 13793, A 21 576.5 31.5 368 US-10-511-937-2505 Sequence 2505, Ap 6 576.5 22 31.5 368 6 US-10-511-937-2931 Sequence 2931, Ap 23 576.5 31.5 US-11-302-678-59 Sequence 59, Appl 368 576.5 24 31.5 368 7 US-11-371-354-63307 Sequence 63307, A 25 569 31.1 367 7 US-11-392-789-2 Sequence 2, Appli 26 US-10-533-519-1184 568 31.0 Sequence 1184, Ap 27 568 31.0 360 6 US-10-219-051B-13795 Sequence 13795, A 28 568 31.0 360 7 US-11-242-111-19 Sequence 19, Appl 29 7 US-11-371-354-67277 568 31.0 360 Sequence 67277, A 30 350 7 563.5 30.8 US-11-371-354-61621 Sequence 61621, A 31 560.5 30.6 369 7 US-11-371-354-69405 Sequence 69405, A 32 560 30.6 374 US-10-669-920-3 Sequence 3, Appli 33 559.5 30.6 350 7 US-11-371-354-68399 Sequence 68399, A 34 559 30.5 361 6 US-10-669-920-374 Sequence 374, App 35 557.5 30.5 357 US-11-371-354-66939 Sequence 66939, A 36 557 30.4 378 6 US-10-511-937-2404 Sequence 2404, Ap 37 557 30.4 389 6 US-10-545-557-23 Sequence 23, Appl 38 557 US-11-520-715-56811 30.4 475 Sequence 56811, A 39 554.5 30.3 369 7 US-11-404-939-481 Sequence 481, App 40 553.5 30.2 364 6 US-10-669-920-377 Sequence 377, App 41 550 30.1 374 US-10-669-920-6 Sequence 6, Appli 42 549.5 30.0 355 6 US-10-516-032-8 Sequence 8, Appli US-10-533-519-1109 549.5 43 30.0 355 6 Sequence 1109, Ap 44 549.5 30.0 355 7 US-11-371-354-56785 Sequence 56785, A 530 29.0 US-10-669-920-237 Sequence 237, App

ALIGNMENTS

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; Sequence 745, Application US/10505928
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  APPLICANT: Ludwig Institute for Cancer Research et al.
  TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
  FILE REFERENCE: 28967/39178
  CURRENT APPLICATION NUMBER: US/10/505,928
  CURRENT FILING DATE: 2004-08-27
  PRIOR APPLICATION NUMBER: US 60/363,019
  PRIOR FILING DATE: 2002-03-07
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   ORGANISM: Homo sapiens
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 GENERAL INFORMATION:
  APPLICANT: EXPRESSION DIAGNOSTICS, INC.
  APPLICANT: Wohlgemuth, Jay
  APPLICANT:
            Fry, Kirk
  APPLICANT: Woodward, Robert
  APPLICANT:
            Ly, Ngoc
  APPLICANT:
            Prentice, James
  APPLICANT:
            Morris, MacDonald
  APPLICANT:
            Rosenberg, Steven
  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
  TITLE OF INVENTION: AND MONITORING TRANSPLANT REJECTION
  FILE REFERENCE: 506612000104
  CURRENT APPLICATION NUMBER: US/10/511,937
  CURRENT FILING DATE:
                    2004-10-19
  PRIOR APPLICATION NUMBER: PCT/US2003/012946
  PRIOR FILING DATE: 2003-04-24
  PRIOR APPLICATION NUMBER: US 10/131,831
  PRIOR FILING DATE: 2002-04-24
  PRIOR APPLICATION NUMBER: US 10/325,899
  PRIOR FILING DATE: 2002-12-20
  NUMBER OF SEQ ID NOS: 3117
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        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qy
            241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Db
Qу
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
            Db
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
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RESULT 3
US-10-511-937-2935
; Sequence 2935, Application US/10511937
 Publication No. US20060088836A1
  GENERAL INFORMATION:
  APPLICANT: EXPRESSION DIAGNOSTICS, INC.
  APPLICANT: Wohlgemuth, Jay
   APPLICANT: Fry, Kirk
   APPLICANT: Woodward, Robert
  APPLICANT: Ly, Ngoc
APPLICANT: Prentice, James
  APPLICANT: Morris, MacDonald
   APPLICANT: Rosenberg, Steven
   TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
  TITLE OF INVENTION: AND MONITORING TRANSPLANT REJECTION
   FILE REFERENCE: 506612000104
   CURRENT APPLICATION NUMBER: US/10/511,937
   CURRENT FILING DATE: 2004~10-19
   PRIOR APPLICATION NUMBER: PCT/US2003/012946
   PRIOR FILING DATE: 2003-04-24
   PRIOR APPLICATION NUMBER: US 10/131,831
   PRIOR FILING DATE: 2002-04-24
   PRIOR APPLICATION NUMBER: US 10/325,899
   PRIOR FILING DATE: 2002-12-20
  NUMBER OF SEQ ID NOS: 3117
   SOFTWARE: PatentIn version 3.2
  SEQ ID NO 2935
   LENGTH: 352
   TYPE: PRT
    ORGANISM: Homo sapiens
US-10-511-937-2935
                    . 100.0%; Score 1830; DB 6; Length 352;
  Best Local Similarity 100.0%; Pred. No. 3.1e-164;
  Matches 352; Conservative
                             0; Mismatches
                                             0; Indels
Qy
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
            Db
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
          61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qy
             Db
          61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
. Qy
         121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
             Db
         121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qγ
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
             Db
         181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Οv
             Db
         241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qу
             301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 4
US-10-511-937-3010
; Sequence 3010, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
   APPLICANT: EXPRESSION DIAGNOSTICS, INC.
  APPLICANT: Wohlgemuth, Jay
  APPLICANT: Fry, Kirk
   APPLICANT:
             Woodward, Robert
  APPLICANT: Ly, Ngoc
  APPLICANT: Prentice, James
   APPLICANT: Morris, MacDonald
  APPLICANT: Rosenberg, Steven
  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
   TITLE OF INVENTION: AND MONITORING TRANSPLANT REJECTION
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FILE REFERENCE: 506612000104
  CURRENT APPLICATION NUMBER: US/10/511,937
  CURRENT FILING DATE: 2004-10-19
  PRIOR APPLICATION NUMBER: PCT/US2003/012946
  PRIOR FILING DATE: 2003-04-24
  PRIOR APPLICATION NUMBER: US 10/131,831
  PRIOR FILING DATE: 2002-04-24
  PRIOR APPLICATION NUMBER: US 10/325,899
  PRIOR FILING DATE: 2002-12-20
  NUMBER OF SEQ ID NOS: 3117
  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3010
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-511-937-3010
                      100.0%; Score 1830; DB 6; Length 352;
 Ouery Match
 Best Local Similarity
                      100.0%; Pred. No. 3.1e-164;
                            0; Mismatches
                                                                    0;
 Matches 352; Conservative
                                            0;
                                                Indels
                                                             Gaps
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Qy
            Db
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qу
            61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Db
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qγ
            121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qу
            Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qγ
            241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Db
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qу
            Db
         301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 5
US-10-219-051B-9078
; Sequence 9078, Application US/10219051B
; Publication No. US20070015145Al
; GENERAL INFORMATION:
  APPLICANT: The General Hospital Corporation doing business as Massachusetts General
  APPLICANT: Hospital / Bayer AG
  TITLE OF INVENTION: Nucleotide sequences involved in pain
  FILE REFERENCE: LeA 35693 Foreign Countries
  CURRENT APPLICATION NUMBER: US/10/219,051B
  CURRENT FILING DATE: 2003-05-09
  PRIOR APPLICATION NUMBER: US 60/312,147
  PRIOR FILING DATE: 2001-08-14
  PRIOR APPLICATION NUMBER: US 60/346,382
  PRIOR FILING DATE: 2001-11-01
  PRIOR APPLICATION NUMBER: US.60/333,347
  PRIOR FILING DATE: 2001-11-26
  NUMBER OF SEQ ID NOS: 14715
  SOFTWARE: Perl script
 SEQ ID NO 9078
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
  PUBLICATION INFORMATION:
   DATABASE ACCESSION NUMBER: SWISS-Prot / P30991
   DATABASE ENTRY DATE: 2002-06-15
US-10-219-051B-9078
 Query Match
                       100.0%; Score 1830; DB 6; Length 352;
  Best Local Similarity
                      100.0%; Pred. No. 3.1e-164;
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Qу
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           Db
         1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qv
           61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Db
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qу
           121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qу
           Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qγ
        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
           241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qy
           Db
        301 LYAFLGAKFKTSAOHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 6
US-10-219-051B-9082
; Sequence 9082, Application US/10219051B
 Publication No. US20070015145A1
 GENERAL INFORMATION:
 APPLICANT: The General Hospital Corporation doing business as Massachusetts General
  APPLICANT: Hospital / Bayer AG
  TITLE OF INVENTION: Nucleotide sequences involved in pain
  FILE REFERENCE: LeA 35693 Foreign Countries
  CURRENT APPLICATION NUMBER: US/10/219,051B
  CURRENT FILING DATE: 2003-05-09
  PRIOR APPLICATION NUMBER: US 60/312,147
  PRIOR FILING DATE: 2001-08-14
  PRIOR APPLICATION NUMBER: US 60/346,382
  PRIOR FILING DATE: 2001-11-01
  PRIOR APPLICATION NUMBER: US 60/333,347
  PRIOR FILING DATE: 2001-11-26
  NUMBER OF SEQ ID NOS: 14715
  SOFTWARE: Perl script
 SEQ ID NO 9082
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
  PUBLICATION INFORMATION:
   DATABASE ACCÉSSION NUMBER: SWISS-Prot / P30991
   DATABASE ENTRY DATE: 2002-06-15
US-10-219-051B-9082
                     100.0%; Score 1830; DB 6; Length 352;
 Ouery Match
 Best Local Similarity 100.0%; Pred. No. 3.1e-164;
 Matches 352; Conservative
                          0; Mismatches
                                         0; Indels
                                                     0; Gaps
Qу
         1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Db
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qy
           Db
        61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qу
           Db
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qу
           Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
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Qy
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Indels

Gaps

0:

Matches 352; Conservative

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241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Db
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qy
            301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Db
RESULT 7
US-11-371-354-68409
; Sequence 68409, Application US/11371354
; Publication No. US20060275794A1
; GENERAL INFORMATION:
  APPLICANT: CARRINO, JOHN
  APPLICANT: LIANG, FENG
  TITLE OF INVENTION: COLLECTIONS OF MATCHED BIOLOGICAL REAGENTS AND METHODS FOR
  TITLE OF INVENTION: IDENTIFYING MATCHED REAGENTS
  FILE REFERENCE: INV-1005-UT2
  CURRENT APPLICATION NUMBER: US/11/371,354
  CURRENT FILING DATE:
                    2006-03-07
  PRIOR APPLICATION NUMBER: 60/673,045
  PRIOR FILING DATE: 2005-04-19
  PRIOR APPLICATION NUMBER: 60/665,199
  PRIOR FILING DATE: 2005-03-25
  PRIOR APPLICATION NUMBER: 60/665,200
  PRIOR FILING DATE: 2005-03-25
  PRIOR APPLICATION NUMBER: 60/659,493
  PRIOR FILING DATE: 2005-03-07
  PRIOR APPLICATION NUMBER: 60/659,492
  PRIOR FILING DATE: 2005-03-07
  PRIOR APPLICATION NUMBER: 60/953,586
  PRIOR FILING DATE: 2005-02-15
  PRIOR APPLICATION NUMBER: 60/651,390
  PRIOR FILING DATE: 2005-02-08
  NUMBER OF SEQ ID NOS: 78682
  SOFTWARE: PatentIn version 3.3
 SEQ ID NO 68409
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
U$-11-371-354-68409
                      100.0%; Score 1830; DB 7;
  Query Match
                     100.0%; Pred. No. 3.1e-164;
  Best Local Similarity
 Matches 352; Conservative
                           0; Mismatches
                                              Indels
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Qу
            Db
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qу
            61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Dh
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Οv
            121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qу
            181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Db
Qу
        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
            241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Db
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qу
            301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 8
US-10-545-557-19
; Sequence 19, Application US/10545557
; Publication No. US20060222654A1
; GENERAL INFORMATION:
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APPLICANT: ANOSYS
  TITLE OF INVENTION: METHODS AND COMPOUNDS FOR RAISING ANTIBODIES AND FOR SCREENING ANTIBODY
  TITLE OF INVENTION: REPERTOIRES
  FILE REFERENCE: 3665-158
  CURRENT APPLICATION NUMBER: US/10/545,557
  CURRENT FILING DATE: 2005-08-15
  PRIOR APPLICATION NUMBER: PCT/IB2004/000888
  PRIOR FILING DATE: 2004-02-13
  PRIOR APPLICATION NUMBER: US60/447,291
  PRIOR FILING DATE: 2003-02-14
  NUMBER OF SEQ ID NOS: 86
  SOFTWARE: PatentIn version 3.1
 SEQ ID NO 19
   LENGTH: 363
   TYPE: PRT
   ORGANISM: artificial sequence
   FEATURE:
   OTHER INFORMATION: CXCR4 + HA Tag
US-10-545-557-19
                      99.8%; Score 1827; DB 6; Length 363;
 Ouerv Match
 Best Local Similarity 99.7%; Pred. No. 6.1e-164;
                                                                   0:
 Matches 351; Conservative
                            1; Mismatches
                                            0;
                                               Indels
          1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Qу
            12 LEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 71
Db
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qy
            72 LVMGYOKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 131
Db
        121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Oν
            132 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 191
Db
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qγ
            192 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 251
Db
        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qy
            252 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 311
Db
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qу
            312 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 363
Db
RESULT 9
US-11-404-939-485
; Sequence 485, Application US/11404939
; Publication No. US20060183164A1
 GENERAL INFORMATION:
  APPLICANT: Lehmann-Bruinsma, Karin
  APPLICANT: Liaw, Chen W.
  APPLICANT: Lin, I-Lin
  TITLE OF INVENTION: Non-Endogenous, Constitutively Activated Known G
  TITLE OF INVENTION: Protein-Coupled Receptors
  FILE REFERENCE: AREN-207
  CURRENT APPLICATION NUMBER: US/11/404,939
  CURRENT FILING DATE: 2006-04-14
  PRIOR APPLICATION NUMBER: US/09/826,509
  PRIOR FILING DATE: 2001-04-05
  PRIOR APPLICATION NUMBER: 60/195,747
  PRIOR FILING DATE: 2000-04-07
  PRIOR APPLICATION NUMBER: 09/170,496
  PRIOR FILING DATE: 1998-10-13
  NUMBER OF SEQ ID NOS: 589
  SOFTWARE: PatentIn Version 2.1
 SEQ ID NO 485
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-11-404-939-485
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Query Match
                          Score 1824; DB 7; Length 352;
 Best Local Similarity
                    99.7%;
                         Pred. No. 1.1e-163;
 Matches 351; Conservative
                          0: Mismatches
                                       1:
                                           Indels
                                                     Gaps
                                                            0:
         1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Qу
           1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
Db
        61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qу
           Db
        61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
       121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qν
           Db
       121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
       181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qу
           Db
       181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAKKT 240
       241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qγ
           Db
       241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qy
           Db
       301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 10
US-10-540-898-921
; Sequence 921, Application US/10540898
 Publication No. US20060166213A1
 GENERAL INFORMATION:
  APPLICANT: David W. Morris
  APPLICANT: Marc Malandro
  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
  FILE REFERENCE: CHIRO056-101 (PP023367.0003)
  CURRENT APPLICATION NUMBER: US/10/540,898
  CURRENT FILING DATE:
                   2005-06-27
  PRIOR APPLICATION NUMBER: US 10/330,773
  PRIOR FILING DATE: 2002-12-27
  NUMBER OF SEQ ID NOS: 981
  SOFTWARE: FastSEQ for Windows Version 4.0
 SEO ID NO 921
   LENGTH: 348
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-540-898-921
                          Score 1785; DB 6; Length 348;
                    97.5%;
 Query Match
 Best Local Similarity
                    98.6%;
                          Pred. No. 5.3e-160;
 Matches 347; Conservative
                         0; Mismatches
                                       1: Indels
                                                      Gaps
Qy
         1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
           Db
         1 MEGISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI 60
         61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL 120
Qу
           Db
        61 LVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVN- 119
       121 YSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 180
Qy
            120 -KSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEA 178
Db
       181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Qу
           Db
       179 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 238
        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Oν
           Db
          TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITE--AFFHCCLNPI 296
Qy
       301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
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RESULT 11
US-11-437-734-2
 ; Sequence 2, Application US/11437734
 ; Publication No. US20060211037A1
 ; GENERAL INFORMATION:
   APPLICANT: KISHIMOTO, Tadamitsu
   APPLICANT: NAGASAWA, Takashi
   APPLICANT: TACHIBANA, Kazunobu
   APPLICANT: IIZASA, Hisashi
   APPLICANT:
             YOSHIDA, Nobuaki
   APPLICANT: NAKAJIMA, Toshihiro
   APPLICANT: YOSHIE, Osamu
   TITLE OF INVENTION: NOVEL MOUSE CXC CHEMOKINE RECEPTOR
   FILE REFERENCE: 1422-386P
   CURRENT APPLICATION NUMBER: US/11/437,734
   CURRENT FILING DATE: 2006-05-22
   PRIOR APPLICATION NUMBER: US/09/367,052
   PRIOR FILING DATE: 1999-08-06
   NUMBER OF SEQ ID NOS: 22
   SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 2
    LENGTH: 359
    TYPE: PRT
    ORGANISM: Mus sp
· US-11-437-734-2
                       91.7%; Score 1678.5; DB 7; 90.1%; Pred. No. 5.9e-150;
  Query Match
  Best Local Similarity
  Matches 319; Conservative
                            19; Mismatches
                                            11;
                                                 Indels
 Qγ
           4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
             6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
 Db
          64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
 Qу
             Db
          66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
         124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV----S 178
 Qу
             126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
 Db
 Qу
         179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
             186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
 Db
         239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
 Qy
             Db
         246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
         299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
 Qy
             Db
          306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
 RESULT 12
 US-10-219-051B-9076
 ; Sequence 9076, Application US/10219051B
 ; Publication No. US20070015145A1
 ; GENERAL INFORMATION:
   APPLICANT: The General Hospital Corporation doing business as Massachusetts General
   APPLICANT: Hospital / Bayer AG
   TITLE OF INVENTION: Nucleotide sequences involved in pain
   FILE REFERENCE: LeA 35693 Foreign Countries
   CURRENT APPLICATION NUMBER: US/10/219,051B
   CURRENT FILING DATE: 2003-05-09
   PRIOR APPLICATION NUMBER: US 60/312,147
   PRIOR FILING DATE: 2001-08-14
   PRIOR APPLICATION NUMBER: US 60/346,382
   PRIOR FILING DATE: 2001-11-01
   PRIOR APPLICATION NUMBER: US 60/333,347
   PRIOR FILING DATE: 2001-11-26
   NUMBER OF SEQ ID NOS: 14715
```

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SOFTWARE: Perl script
; SEQ ID NO 9076
   LENGTH: 349
   TYPE: PRT
   ORGANISM: Rattus norvegicus
  PUBLICATION INFORMATION:
   DATABASE ACCESSION NUMBER: SWISS-Prot / 008565
   DATABASE ENTRY DATE: 2001-10-16
US-10-219-051B-9076
 Query Match
                      91.4%; Score 1673; DB 6; Length 349;
 Best Local Similarity 90.8%; Pred. No. 1.9e-149;
                                                        0; Gaps
 Matches 317; Conservative
                          17; Mismatches
                                          15; Indels
          4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
Qу
            Db
          1 MEIYTSDNYSEEVGSGDYDSNKEPCFRDENENFNRIFLPTIYFIIFLTGIVGNGLVILVM 60
         64 GYOKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
·Qy
            61 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 120
Db
        124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEADDR 183
Qy
            121 VLILAFISLDRYLAIVHATNSQSARKLLAEKAVYVGVWIPALLLTIPDIIFADVSQGDGR 180
Db
        184 YICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTVI 243
Qγ
            181 YICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTVI 240
Db
        244 LILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPILYA 303
Qγ
            241 LILAFFACWLPYYVGISIDSFILLEVIKQGCEFESVVHKWISITEALAFFHCCLNPILYA 300
        304 FLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qy
            Db
        301 FLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 349
RESULT 13
US-10-219-051B-9080
; Sequence 9080, Application US/10219051B
; Publication No. US20070015145A1
; GENERAL INFORMATION:
  APPLICANT: The General Hospital Corporation doing business as Massachusetts General
  APPLICANT: Hospital / Bayer AG
  TITLE OF INVENTION: Nucleotide sequences involved in pain
  FILE REFERENCE: LeA 35693 Foreign Countries
  CURRENT APPLICATION NUMBER: US/10/219,051B
  CURRENT FILING DATE: 2003-05-09
  PRIOR APPLICATION NUMBER: US 60/312,147
  PRIOR FILING DATE: 2001-08-14
  PRIOR APPLICATION NUMBER: US 60/346,382
  PRIOR FILING DATE: 2001-11-01
  PRIOR APPLICATION NUMBER: US 60/333,347
  PRIOR FILING DATE: 2001-11-26
  NUMBER OF SEQ ID NOS: 14715
  SOFTWARE: Perl script
; SEQ ID NO 9080
   LENGTH: 349
   TYPE: PRT
   ORGANISM: Rattus norvegicus
  PUBLICATION INFORMATION:
   DATABASE ACCESSION NUMBER: SWISS-Prot / 008565
   DATABASE ENTRY DATE: 2001-10-16
US-10-219-051B-9080
                      91.4%; Score 1673; DB 6; Length 349;
  Query Match
  Best Local Similarity 90.8%; Pred. No. 1.9e-149;
  Matches 317; Conservative
                           17; Mismatches
                                           15:
                                               Indels
           4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
Qу
            : [4]]][]:[]:[4]]]]]
          1 MEIYTSDNYSEEVGSGDYDSNKEPCFRDENENFNRIFLPTIYFIIFLTGIVGNGLVILVM 60
Db
          64 GYOKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
Οv
```

```
61 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 120
Db
        124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVSEADDR 183
Qу
           Db
        121 VLILAFISLDRYLAIVHATNSQSARKLLAEKAVYVGVWIPALLLTIPDIIFADVSQGDGR 180
        184 YICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTVI 243
Qν
           181 YICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTVI 240
Db
        244 LILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPILYA 303
Qy
           241 LILAFFACWLPYYVGISIDSFILLEVIKQGCEFESVVHKWISITEALAFFHCCLNPILYA 300
Db
        304 FLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qy
           301 FLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 349
RESULT 14
US-11-437-734-8
; Sequence 8, Application US/11437734
; Publication No. US20060211037A1
; GENERAL INFORMATION:
  APPLICANT: KISHIMOTO, Tadamitsu
  APPLICANT: NAGASAWA, Takashi
  APPLICANT:
           TACHIBANA, Kazunobu
  APPLICANT:
           IIZASA, Hisashi
  APPLICANT: YOSHIDA, Nobuaki
  APPLICANT: NAKAJIMA, Toshihiro
  APPLICANT:
           YOSHIE, Osamu
  TITLE OF INVENTION: NOVEL MOUSE CXC CHEMOKINE RECEPTOR
  FILE REFERENCE: 1422-386P
  CURRENT APPLICATION NUMBER: US/11/437,734
  CURRENT FILING DATE: 2006-05-22
  PRIOR APPLICATION NUMBER: US/09/367,052
  PRIOR FILING DATE: 1999-08-06
  NUMBER OF SEQ ID NOS: 22
  SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 8
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Mus sp.
US-11-437-734-8
                    91.3%: Score 1671.5: DB 7:
                                            Length 352:
 Query Match
 Best Local Similarity
                    90.3%; Pred. No. 2.6e-149;
 Matches 318; Conservative
                         18; Mismatches
Qу
         6 IYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVMGY 65
           1 IYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVMGY 60
Db
Qy
           QKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVL 125
           Db
        61 QKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSSVL 120
        126 ILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV----SEA 180
Qy
           ILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDISQG 180
Db
Qy
        181 DDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
           181 DDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKT 240
Db
        241 TVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLNPI 300
Qy
           241 TVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLNPI 300
Db
        301 LYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qy
           301 LYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Db
```

RESULT 15

```
US-10-540-898-918
; Sequence 918, Application US/10540898
 Publication No. US20060166213A1
; GENERAL INFORMATION:
  APPLICANT: David W. Morris
  APPLICANT: Marc Malandro
  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
  FILE REFERENCE: CHIRO056-101 (PP023367.0003)
  CURRENT APPLICATION NUMBER: US/10/540,898
  CURRENT FILING DATE: 2005-06-27
  PRIOR APPLICATION NUMBER: US 10/330,773
  PRIOR FILING DATE: 2002-12-27
  NUMBER OF SEQ ID NOS: 981
  SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 918
   LENGTH: 355
   TYPE: PRT
   ORGANISM: Mus musculus
US-10-540-898-918
 Query Match 89.3%; Score 1633.5; DB 6; Length 355; Best Local Similarity 88.7%; Pred. No. 1e-145;
 Matches 314; Conservative
                          19; Mismatches
                                         12;
                                             Indels
          4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
Qу
            Db
          6 VSIYTSDNYSEEVGŞGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
         64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
Qу
            66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVN--KS 123
Db
        124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV----S 178
Qу
            124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 183
Db
        179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
Qу
             184 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 243
Db
Qу
        239 KTTVILILAFFACWŁPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
            244 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITE--AFFHCCLN 301
Db
        299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Qν
            Db
        302 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 355
Search completed: February 6, 2007, 14:31:22
```

start

Job time : 42.5963 secs

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10785230 and Search Result 20070206_074015_us-10-785-230-3.rag.

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SCORE FAQ Comments / Suggestions

This page gives you Search Results detail for the Application 10785230 and Search Result 20070206_074015_us-10-785-230-3.rag.

start | next page

Go Back to previous page

GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

List

Run on: February 6, 2007, 14:07:09; Search time 216 Seconds

(without alignments)

814.792 Million cell updates/sec

Title: US-10-785-230-3

Perfect score: 1867

Sequence: 1 MEPISVSIYTSDNYSEEVGS......KRGGHSSVSTESESSSFHSS 359

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2782304 segs, 489333398 residues

Total number of hits satisfying chosen parameters: 2782304

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: A G

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID .	Description
1	1867	100.0	359	2	AAW64778	Aaw64778 A murine
2	1867	100.0	359	2	AAY39994	Aay39994 Mouse CXC
3	1867	100.0	359	8	AD029272	Ado29272 Mouse GPC
4	1867	100.0	359	8	ADQ97941	Adq97941 Mouse can
5	1848	99.0	357	10	AEF38898	Aef38898 Mouse che

1758.5 94.2 349 10 AEF38900 Aef38900 Rat chemo 1758.5 94.2 349 10 AEK47825 Aek47825 Rat chemo 1744.5 8 93.4 349 7 ADE63141 Ade63141 Rat Prote 1744.5 349 7 Ade63145 Rat Prote 93.4 ADE63145 1744.5 93.4 349 10 AEE66169 Aee66169 Rat CXCR4 10 1678.5 89.9 352 2 AAR68812 Aar68812 Human mon 11 1678.5 89.9 352 AAR80757 Aar80757 Chemokine 12 AAY39993 Aay39993 Human CXC 1678.5 89.9 352 13 2 Aay52507 Human CXC 1678.5 89.9 352 3 AAY52507 14 15 1678.5 89.9 352 AAE06690 Aae06690 Human neu 89.9 352 16 1678.5 4 AAG79088 Aag79088 Amino aci 17 1678.5 89.9 352 AAG80123 Aag80123 Human CXC 1678.5 89.9 352 AA014003 Aao14003 Human cvs 18 89.9 352 5 19 1678.5 ABP52651 Abp52651 Human CXC Abg32977 Human CXC 20 1678.5 89.9 352 5 ABG32977 1678.5 89.9 352 Abg33065 Human CXC 21 ABG33065 22 1678.5 89.9 352 5 ABP65183 Abp65183 Hypoxia-r 1678.5 89.9 Aag78471 CXCR4 pro 23 352 AAG78471 1678.5 89.9 352 6 ABP96794 Abp96794 Human COP 24 25 1678.5 89.9 352 6 ABU03495 Abu03495 Angiogene 1678.5 89.9 26 352 ABR58581 Abr58581 Human can 1678.5 89.9 352 ABP97733 Abp97733 Amino aci 27 28 1678.5 89.9 352 6 ABP81796 Abp81796 Human CXC 1678.5 89.9 29 352 ADC98646 Adc98646 Human CXC 1678.5 89.9 352 Ade63147 Human Pro 30 ADE63147 31 1678.5 89.9 352 7 ADE63143 Ade63143 Human Pro 89.9 352 32 1678.5 ADF90878 . Adf90878 Human hep 1678.5 89.9 352 Ado16837 CXCR4 ami 33 ADO16837 34 1678.5 89.9 352 7 ADN95821 Adn95821 Human BEC 35 1678.5 89.9 352 ADH17079 Adh17079 Human orp 89.9 Adn04756 Antipsori 1678.5 352 ADN04756 36 37 1678.5 89.9 352 8 AD029271 Ado29271 Human GPC 38 1678.5 89.9 352 8 ADP12477 Adp12477 Protein e 89.9 Adp12926 Protein e 1678.5 352 8 ADP12926 39 40 1678.5 89.9 352 8 ADP13001 Adp13001 Protein e 41 1678.5 89.9 352 ADO19692 Ado19692 Human PRO 1678.5 89.9 352 ADO19832 Ado19832 Human PRO 42 89.9 352 43 1678.5 8 AD020013 Ado20013 Human PRO 44 1678.5 89.9 352 8 ADP44055 Adp44055 Human CXC 1678.5 89.9 352 ADO14488 Adq14488 Human che 45

ALIGNMENTS

```
RESULT 1
AAW64778
ID
     AAW64778 standard; protein; 359 AA.
XX
AC
     AAW64778;
XX
ĎΤ
     20-NOV-1998 (first entry)
XX
DE
     A murine CXC chemokine receptor.
XX
KW
     Mouse; CXC chemokine receptor; pre-B cell line DW34;
KW
     CXC chemokine pre-B cell stimulatory factor PBSF/SDF-1; HIV infection;
ΚW
     screening; inhibitor; AIDS.
XX
os
     Mus sp.
XX
     WO9835035-A1.
PN
XX
PD
     13-AUG-1998.
XX
PF
     07-FEB-1997;
                     97WO-JP000299.
XX
     07-FEB-1997:
                    97WO-JP000299.
PR
XX
PA
     (SHIO ) SHIONOGI & CO LTD.
XX
     Kishimoto T, Nagasawa T, Tachibana K, Iizasa H, Yoshida N;
PΙ
     Nakajima T, Yoshie O;
PΙ
XX
DR
     WPI; 1998-447232/38.
     N-PSDB; AAV46370.
DR
```

```
XX
        Mouse CXC chemokine receptor binding to PBSF/SDF-1 pre-B cell stimulatory
PΤ
PT
        factor - is useful for screening of potential HIV infection and AIDS
PT
XX
        Claim 1; Page 54-56; 76pp; Japanese.
PS
XX
        The present sequence represents a murine CXC chemokine receptor which
CC
        binds to the mouse CXC chemokine pre-B cell stimulatory factor PBSF/SDF-
CC
       1. The nucleic acid is isolated from mouse pre-B cell line DW34. The
CC
        receptor and cells expressing it can be used in the study and mapping of
CC
        the mechanism of HIV infection and in screening of potential inhibitors
CC
        of HIV infection and the development of AIDS
XX
SQ
        Sequence 359 AA;
   Query Match
                                           100.0%; Score 1867; DB 2; Length 359;
   Best Local Similarity
                                           100.0%;
                                                          Pred. No. 2.1e-214;
                                                    0; Mismatches
   Matches 359: Conservative
                                                                                      0:
                                                                                             Indels
                    1 MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 60
Qу
                       Db
                    1 MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 60
                  61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
Qу
                        61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
Db
                 121 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 180
Qy
                        121 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 180
Db
Qу
                 181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
                       Db
                 181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
                 241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
Οv
                        1 ] [ ] | ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
Db
                 241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
                 301 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qу
                        Db
                 301 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
RESULT 2
AAY39994
ID
        AAY39994 standard; protein; 359 AA.
        AAY39994;
AC
XX
DΤ
        16-DEC-1999 (first entry)
XX
DΕ
        Mouse CXCR4 protein sequence.
XX
        CXCR4; mouse; neovascularisation; inhibitor; solid cancer; therapy;
KW
KW
        tissue repairing agent; vascularisation.
XX
os
        Mus sp.
XX
PN
        WO9948528-A1.
XX
PD
        30-SEP-1999.
XX
PF
        23-MAR-1999:
                                  99WO-JP001448.
XX
PR
        24-MAR-1998;
                                  98JP-00095448.
XX
         (CHUS ) CHUGAI SEIYAKU KK.
PA
PA
         (KISH/) KISHIMOTO T.
XX
         Kishimoto T, Nagasawa T, Tachibana K;
PΙ
XX
DR
        WPI; 1999-591042/50.
DR
        N-PSDB; AAZ27611.
XX
```

```
CXCR4-potentiating agents and methods useful for inhibiting
РТ
    neovascularization, and treating solid cancers.
XX
PS
    Disclosure; Page 49-50; 63pp; Japanese.
ХX
CC
    This sequence is the mouse CXCR4 protein. The invention relates to
CC
    remedies inhibiting neovascularisation, remedies for solid cancer,
CC
    remedies for diseases pathologically caused by neovascularisation and
CC
    tissue repairing agents containing as the active ingredient a substance
CC
    capable of potentiating CXCR4. Based on a finding that vascularisation is
    inhibited in a CXCR4 knockout mouse, it becomes possible to prepare
CC
CC
    remedies inhibiting vascularisation which contain as the active
CC
    ingredient a substance capable of potentiating CXCR4, remedies for solid
CC
    cancer, remedies for diseases pathologically caused by neovascularisation
    and tissue repairing agents containing as the active ingredient a
CC
CC
    substance capable of potentiating CXCR4. It is also possible to establish
CC
    methods for treatment with the use of these remedies .
XX
SO
    Sequence 359 AA;
                       100.0%; Score 1867; DB 2; Length 359;
 Ouery Match
 Best Local Similarity 100.0%; Pred. No. 2.1e-214;
                              0; Mismatches
 Matches 359: Conservative
                                              0; Indels
           1 \ \texttt{MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL} \ \ 60
Qу
             Db
           1 MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 60
Qу
          61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
             Db
          61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
         121 NLYSSVLILAFISLDRYLAIVHATNSORPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 180
Ον
             121 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 180
Db
         181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
Qу
             181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
         241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
             Db
         241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
Qу
         301 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
            Db
         301 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
RESULT 3
ADO29272
    ADO29272 standard; protein; 359 AA.
TD
XX
    ADO29272;
AC
XX
    29-JUL-2004 (first entry)
DT
XX
    Mouse GPCR CXCR4, SEO ID NO:373.
DE
XX
K₩
    G protein-coupled receptor; GPCR; drug screening; diagnosis;
    transgenic mouse; neurological disorder; adrenal gland disorder;
KW
KW
    colon disorder; intestinal disorder; cardiovascular disorder;
    muscular disorder; blood disorder; immune disorder; bone disorder;
KW
    joint disorder; metabolic disorder; nutritive disorder; cancer;
KW
ΚW
    kidney disorder; liver disorder; lung disorder; breast disorder;
    ovary disorder; uterus disorder; prostate disorder; testis disorder;
    skin disorder; stomach disorder; pancreas disorder; spleen disorder;
KW
KW
    thymus disorder; thyroid disorder; antiparkinsonian; antimanic;
    cytostatic; antiinflammatory; vasotropic; antianginal; antiarrhythmic;
    CNS; central nervous system; respiratory; antidiarrhoeic; antidiabetic;
ΚW
KW
    virucide; hepatotropic; antibacterial; antianaemic; antiseborrhoeic;
    dermatological; antiulcer; antithyroid; antiallergic; anorectic;
KW
    immunosuppressive; nephrotropic; gene therapy; GPCR modulator; mouse;
KW
    murine; receptor.
хx
```

os

Mus musculus.

```
PN
    W02004040000-A2.
XX
    13-MAY-2004.
XX
PF
    09-SEP-2003; 2003WO-US028226.
ХX
    09-SEP-2002; 2002US-0409303P.
PR
PR
    09-APR-2003; 2003US-0461329P.
XX
PΑ
    (PRIM-) PRIMAL INC.
XX
PΙ
    Gaitanaris GA, Bergmann JE, Gragerov A, Hohmann J,
PΙ
    Madisen L, Mcilwain KL, Pavlova MN, Vassilatis D,
XX
DR
    WPI; 2004-390329/36.
DR
    N-PSDB; ADO30145.
XX
PT
    Novel mammalian G protein coupled receptors, useful for identifying
PT
    compounds that modulates diagnosing and treating disease condition
PT
    associated with GPCR dysfunction e.g. autoimmune diseases, angina
PT
    pectoris, Parkinson's disease.
XX
PS
    Claim 151; SEQ ID NO 373; 542pp; English.
XX
CC
    The invention relates to human and mouse G protein-coupled receptors
CC
    (GPCRs) and nucleic acids encoding them. The invention also relates to
CC
    sequences at least 90\% identical to the GPCR proteins and nucleic acids
CC
    of the invention; methods of treating, preventing or diagnosing diseases
CC
    associated with GPCRs of the invention; methods of screening for
CC
    compounds useful in the treatment of GPCR-related diseases; a transgenic
CC
    mouse comprising a GPCR gene of the invention; a mouse comprising a
CC
    mutation in a GPCR transgene or in an endogenous GPCR gene; cells derived
    from the trasngenic mice; kits comprising several mice, each of which has
CC
CC
    a mutation in a different GPCR gene of the invention; and kits comprising
CC
    probes which hybridise to GPCR polynucleotides of the invention. The
CC
    invention further discloses variants of the GPCR polypeptides and vectors
CC
    comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may
CC
    be used in the diagnosis, treatment or prevention of a wide variety of
CC
    diseases including neurological disorders (e.g., Alzheimer's disease,
CC
    depression, diabetic neuropathy, Parkinson's disease or schizophrenia);
CC
    disorders of the adrenal gland; disorders of the colon or intestine
    (e.g., Crohn's disease, diarrhoea, food poisoning or irritable bowel
CC
CC
    syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or
CC
    myocardial infarction); muscular disorders; blood disorders (e.g.,
    anaemia or leukaemia); immune disorders (e.g., autoimmune disorders or
CC
CC
    AIDS); bone and joint disorders (e.g., osteoarthritis, rheumatoid
CC
    arthritis, gout or osteoporosis); metabolic or nutritive disorders (e.g.,
    obesity, enzyme deficiency-related diseases or vitamin deficiency-related
CC
    diseases); and disorders of the kidney, liver, lung, breast, ovary,
CC
    uterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and
    thyroid (e.g., cancers). The present sequence represents a GPCR of the
CC
    invention. Note: The full sequence data for this patent did not form part
CC
    of the printed specification; those sequences not shown were obtained in
CC
    electronic format directly from WIPO at
CC
    ftp.wipo.int/pub/published_pct_sequences.
XX
SO
    Sequence 359 AA;
  Query Match
                         100.0%; Score 1867; DB 8;
 Best Local Similarity
                        100.0%; Pred. No. 2.1e-214;
 Matches 359; Conservative
                               0; Mismatches
                                                    Indels
Qy
           1 MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 60
             Db
           1 MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 60
          61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
Qy
              61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
Db
         121 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 180
Qy
             Db
         121 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 180
```

181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240

0ν

```
Db
        181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
         241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
Οv
            241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
Db
Qy
         301 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
            Db
        {\tt 301\ HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS\ 359}
RESULT 4
AD097941
ID
    ADQ97941 standard; protein; 359 AA.
XX
AC
    ADQ97941;
XX
DT
    07-OCT-2004 (first entry)
XX
DE
    Mouse cancer associated sequence MP11-026, SEO ID 918.
XX
KW
    Cytostatic; Gene Therapy; cancer; leukemia; lymphoma; Mouse.
XX
OS
    Mus musculus.
XX
PN
    WO2004060304-A2.
XX
PD
    22-JUL-2004.
XX
    22-DEC-2003; 2003WO-US041389.
PF
XX
PR
    27-DEC-2002; 2002US-00330773.
XX
PA
    (SAGR-) SAGRES DISCOVERY INC.
XX
PΙ
    Morris DW. Malandro MS:
XX
DR
    WPI; 2004-543781/52.
XX
РΤ
    New isolated cancer associated nucleic acids comprising at least 10
PT
    contiguous nucleotides, useful for diagnosing, preventing and/or treating
PT
    cancers such as leukemia and lymphoma.
XX
PS
    Claim 1; SEQ ID NO 918; 199pp; English.
XX
CC
    The present invention relates to cancer associated sequences (ADQ97025-
CC
    ADQ98004). The sequences are useful for the diagnosis, prevention and/or
    treatment of cancer, such as leukemia and lymphoma. Note: The sequence
CC
CC
    data for this patent did not form part of the printed specification, but
CC
    was obtained in electronic formate directly from WIPO at
CC
    ftp.wipo.int/pub/published_pct_sequences.
XX
SQ
    Sequence 359 AA;
 Query Match
                      100.0%; Score 1867; DB 8; Length 359;
 Best Local Similarity 100.0%; Pred. No. 2.1e-214;
 Matches 359; Conservative
                            0; Mismatches
                                                        0; Gaps
                                            0; Indels
                                                                   0:
          1 MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 60
Qy
            Db
          1 MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 60
         61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
Qγ
            Db
         61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
Qy
        121 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 180
            Db
        121 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 180
        181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
Qv
            $1111####11#1111#1111##11##11##|||||
Db
        181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
        241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
Qν
```

```
Db
         241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
Qу
         301 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
             Db
         301 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
RESULT 5
AEF38898
ID
    AEF38898 standard; protein; 357 AA.
AC
    AEF38898;
XX
    23-MAR-2006 (first entry)
DT
XX
DF.
    Mouse chemokine (C-X-C motif) receptor 4.
XX
    non-insulin dependent diabetes; antidiabetic; obesity; anorectic;
KW
KW
    insulin resistance; diagnosis.
XX
OS
    Mus musculus.
XX
    WO2006007400-A2.
PN
XX
PD
    19-JAN-2006.
XX
    15-JUN-2005; 2005WO-US021297.
PF
XX
PR
    16-JUN-2004; 2004US-0580448P.
XX
PA
    (META-) METABOLEX INC.
XX
PΙ
    Moodie SA, Zhang F, Rack PG, Shang J, Lavan BE, Allan B, Wong C;
PΤ
    Gregoire F, Perez G, Waters S;
XX
DR
    WPI: 2006-110285/11.
DR
    N-PSDB; AEF38897.
XX
PT
    Identifying an agent for treating an obese, diabetic or pre-diabetic
PT
    individual comprises selecting an agent that modulates the expression or
PT
    activity of the polypeptide or that binds to the polypeptide.
XX
PS
    Claim 9; SEQ ID NO 72; 281pp; English.
XX
CC
    The invention relates to identifying an agent for treating an obese,
CC
    diabetic or pre-diabetic individual comprises selecting an agent that
CC
    modulates the expression or activity of the polypeptide or that binds to
    the polypeptide. The method comprises contacting an agent to a
CC
CC
    polypeptide encoded by a polynucleotide that hybridizes to a nucleic acid
CC
    encoding any one the proteins included in the sequence listing (in 50%
    formamide, 5 \times SSC, and 1\% SDS at 42 degrees C followed by a wash in 0.2
CC
    x SSC, and 0.1% SDS at 55 degrees C) and selecting an agent that
CC
    modulates the expression or activity of the polypeptide, or that binds to
    the polypeptide, thus identifying an agent for treating an obese,
CC
    diabetic or pre-diabetic individual. The method further comprises
CC
    detecting whether the selected agent modulates weight and/or obesity, or
    insulin sensitivity. The polypeptide is expressed in a cell and the cell
CC
    is contacted with the agent. The method is useful for identifying an
CC
    agent for treating obesity or diabetes. The present sequence represents a
CC
    full length mouse polypeptide of the invention.
XX
SO
    Sequence 357 AA;
 Query Match
                        99.0%; Score 1848; DB 10;
                       99.4%; Pred. No. 3.9e-212;
 Best Local Similarity
 Matchès 357; Conservative
                              0; Mismatches
                                               0;
                                                   Indels
                                                            2; Gaps
Qу
           1 MEPISVSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 60
             Db
           1 MEPI--SIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGL 58
Qy
          61 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 120
             59 VILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTV 118
```

```
121 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS. 180
Οv
             Db
         119 NLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 178
Qу
         181 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
             179 QGDISQGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 238
Db
Qу
         241 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 300
             239 KRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFF 298
Db
         301 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qу
             299 HCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 357
RESULT 6
AEF38900
    AEF38900 standard; protein; 349 AA.
XX
    AEF38900:
AC.
XX
    23-MAR-2006 (first entry)
DT
XX
DE
    Rat chemokine (C-X-C motif) receptor 4.
XX
KW
    non-insulin dependent diabetes; antidiabetic; obesity; anorectic;
ΚW
    insulin resistance; diagnosis.
XX
OS
    Rattus norvegicus.
XX
PN
    WO2006007400-A2.
XX
PD
    19-JAN-2006.
XX
    15-JUN-2005: 2005WO-US021297.
PF
XX
PR
    16-JUN-2004; 2004US-0580448P.
XX
PA
    (META-) METABOLEX INC.
XX
PΙ
    Moodie SA, Zhang F, Rack PG, Shang J, Lavan BE, Allan B, Wong C;
PΙ
    Gregoire F, Perez G, Waters S;
XX
DR
    WPI; 2006-110285/11.
ΠR
    N-PSDB; AEF38899.
XX
РΤ
    Identifying an agent for treating an obese, diabetic or pre-diabetic
PT
    individual comprises selecting an agent that modulates the expression or
PT
    activity of the polypeptide or that binds to the polypeptide.
XX
    Claim 9; SEQ ID NO 74; 281pp; English.
PS
XX
    The invention relates to identifying an agent for treating an obese,
CC
CC
    diabetic or pre-diabetic individual comprises selecting an agent that
CC
    modulates the expression or activity of the polypeptide or that binds to
    the polypeptide. The method comprises contacting an agent to a
CC
CC
    polypeptide encoded by a polynucleotide that hybridizes to a nucleic acid
CC
    encoding any one the proteins included in the sequence listing (in 50%
    formamide, 5 \times SSC, and 1% SDS at 42 degrees C followed by a wash in 0.2
CC
CC
    x SSC, and 0.1% SDS at 55 degrees C) and selecting an agent that
CC
    modulates the expression or activity of the polypeptide, or that binds to
    the polypeptide, thus identifying an agent for treating an obese,
CC
CC
    diabetic or pre-diabetic individual. The method further comprises
CC
    detecting whether the selected agent modulates weight and/or obesity, or
    insulin sensitivity. The polypeptide is expressed in a cell and the cell
CC
CC
    is contacted with the agent. The method is useful for identifying an
CC
    agent for treating obesity or diabetes. The present sequence represents a
CC
    full length rat polypeptide of the invention.
XX
    Sequence 349 AA;
                        94.2%; Score 1758.5; DB 10; Length 349;
  Query Match
  Best Local Similarity
                        96.0%; Pred. No. 2.1e-201;
 Matches 340; Conservative
                               4; Mismatches
                                                  Indels
                                                            5; Gaps
```

```
6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
Qу
            1 MEIYTSDNYSEEVGSGDYDSNKEPCFRDENENFNRIFLPTIYFIIFLTGIVGNGLVILVM 60
Db
          66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qγ
            Db
          61 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 120
         126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
Qу
            121 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDIIFADV-
Db
         186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Qу
            Db
         176 QGDGRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 235
         246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKOGCDFESIVHKWISITEALAFFHCCLN 305
0ν
            236 KTTVILILAFFACWLPYYVGISIDSFILLEVIKQGCEFESVVHKWISITEALAFFHCCLN 295
Db
         306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qу
            Db
         296 PILYAFLGAKFKSSAOHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 349
RESULT 7
AEK47825
    AEK47825 standard; protein; 349 AA.
XX
AC
    AEK47825;
XX
DT
    16-NOV-2006 (first entry)
XX
    Rat chemokine (C-X-C motif) receptor 4.
DΕ
XX
    Lipidosis; antilipemic; neurological disease; diagnosis; gene expression;
KW
KW
    chemokine (C-X-C motif) receptor 4.
XX
    Rattus norvegicus.
OS
XX
ΡN
    WO2006088226-A1.
XX
PD
    24-AUG-2006.
XX
    16-FEB-2006; 2006WO-JP303205.
PF
XX
    17-FEB-2005; 2005JP-00040698.
PR
    26-APR-2005; 2005JP-00128412.
PR
XX
    (TAKE ) TAKEDA PHARM CO LTD.
PA
XX
PΙ
    Sawada H, Mori I, Takami K;
XX
    WPI; 2006-669225/69.
DR
ŊR
    N-PSDB; AEK47824.
XX
PT
    Reagent useful for determining phospholipidosis in mammal, comprises
PT
    nucleic acid capable of hybridizing to nucleic acid being a
PT
    phospholipidosis marker gene such as ATX1, CXCR4, Fbx15 and PRA1.
XX
PS
    Disclosure; SEQ ID NO 77; 177pp; Japanese.
XX
CC
    The invention relates to a reagent for determining phospholipidosis in a
CC
    mammal, comprises a nucleic acid (N1) capable of hybridizing under high
CC
    stringent conditions to a nucleic acid given in the specification, and/or
    a nucleic acid capable of hybridizing under high stringent conditions
CC
CC
    with the nucleic acid having a base sequence complementary to (N1). Also
CC
    included are a kit for determining phospholipidosis in a mammal
CC
    (comprising the reagents as cited, or the reagents including the nucleic
CC
    acid capable of hybridizing under high stringent conditions with the
    transcription product of the gene whose expression fluctuates in
CC
CC
    correlation to the phospholipidosis disease onset, and/or nucleic acid
CC
    capable of hybridizing under high stringent conditions with a nucleic
    acid having a base sequence complementary to the transcript product, so
CC
    as to enable detection of the expression of the gene) and determining
```

```
CC
    phospholipidosis disease in a mammal (comprising detecting expression
CC
    fluctuation of one or more genes, being correlated to the onset of the
CC
    phospholipidosis disease, in a sample collected from a mammal, where at
CC
    least one gene has a base sequence that is the same or substantially same
CC
    as a nucleic acid given in the specification). The nucleic acid sequences
    are useful for determining phospholipidosis disease in a mammal (such as
CC
    human, rat, mouse, dog or monkey), using a sample such as blood or
CC
    lymphocyte, where the phospholipidosis disease originates from a compound
    or the mammal had administered or exposed to the compound, and the
CC
    compound has cationic amphiphilic drug structure. The reagent enables
CC
    rapid, simple and precise or non-invasive determination of
CC
    phospholipidosis disease in a mammal, with decreased appearance frequency
CC
    of false-positive results. The present sequence represents a protein
CC
    encoded by a rat \dot{c}{DNA} a change in expression of which correlates with
CC
    onset of phospholipidosis.
XX
    Sequence 349 AA;
                       94.2%; Score 1758.5; DB 10; Length 349;
 Query Match
 Best Local Similarity
                     96.0%; Pred. No. 2.1e-201;
 Matches 340; Conservative
                             4; Mismatches
                                                 Indels
                                                          5; Gaps
Qу
          6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
            Db
          1 MEIYTSDNYSEEVGSGDYDSNKEPCFRDENENFNRIFLPTIYFIIFLTGIVGNGLVILVM 60
          66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qy
            61 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 120
Db
         126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
Qу
            Db
         121 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDIIFADV-----S 175
         186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Οv
            Db
         176 OGDGRYICDRLYPDSLWMVVFOFOHIMVGLILPGIVILSCYCIIISKLSHSKGHOKRKAL 235
         246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Qv
            Db
         236 KTTVILILAFFACWLPYYVGISIDSFILLEVIKQGCEFESVVHKWISITEALAFFHCCLN 295
         306 PILYAFLGAKFKSSAOHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qу
            Db
         296 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 349
RESULT 8
ADE63141
ID
    ADE63141 standard; protein; 349 AA.
XX
AC
    ADE63141;
XX
DT
    29-JAN-2004 (first entry)
XX
DF.
    Rat Protein 008565, SEQ ID NO 9076.
XX
KW
    Rat; pain; neuronal tissue; gene therapy; spinal segmental nerve injury;
ΚW
    chronic constriction injury; CCI; spared nerve injury; SNI; Chung.
XX
os
    Rattus norvegicus.
XX
PN
    WO2003016475-A2.
XX
PD
    27-FEB-2003.
XX
PF
    14-AUG-2002; 2002WO-US025765.
XX
    14-AUG-2001; 2001US-0312147P.
PR
PR
    01-NOV-2001; 2001US-0346382P.
PR
    26-NOV-2001; 2001US-0333347P.
XX
    (GEHO ) GEN HOSPITAL CORP.
PA
PA
    (FARB ) BAYER AG.
XX
    Woolf C, D'urso D, Befort K, Costigan M;
```

```
XX
    WPT: 2003-268312/26.
DR
DR
    GENBANK; 008565.
XX
PT
    New composition comprising two or more isolated polypeptides, useful for
PΤ
    preparing a medicament for treating pain in an animal.
XX
PS
    Claim 1; Page; 1017pp; English.
XX
CC
    The invention discloses a composition comprising two or more isolated rat
CC
    or human polynucleotides or a polynucleotide which represents a fragment,
CC
    derivative or allelic variation of the nucleic acid sequence. Also
CC
    claimed are a vector comprising the novel polynucleotide, a host cell
CC
    comprising the vector, a method for identifying a nucleotide sequence
    which is differentially regulated in an animal subjected to pain and a
CC
    kit to perform the method, an array, a method for identifying an agent
CC
    that increases or decreases the expression of the polynucleotide sequence
CC
    that is differentially expressed in neuronal tissue of a first animal
CC
    subjected to pain, a method for identifying a compound which regulates
CC
    the expression of a polynucleotide sequence which is differentially
    expressed in an animal subjected to pain, a method for identifying a
CC
CC
    compound that regulates the activity of one or more of the
CC
    polynucleotides, a method for producing a pharmaceutical composition, a
CC
    method for identifying a compound or small molecule that regulates the
CC
    activity in an animal of one or more of the polypeptides given in the
CC
    specification, a method for identifying a compound useful in treating
CC
    pain and a pharmaceutical composition comprising the one or more
CC
    polypeptides or their antibodies. The polynucleotide or the compound that
CC
    modulates its activity is useful for preparing a medicament for treating
CC
    pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
CC
    injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
CC
    therapy). The sequence presented is a rat protein (shown in Table 2 of
    the specification) which is differentially expressed during pain. Note:
CC
    The sequence data for this patent did not form part of the printed
CC
    specification, but was obtained in electronic form directly from WIPO at
CC
    ftp.wipo.int/pub/published pct sequences.
XX
    Sequence 349 AA;
                       93.4%; Score 1744.5; DB 7;
 Ouery Match
                                                  Length 349:
 Best Local Similarity
                       95.5%; Pred. No. 9.9e-200;
 Matches 338; Conservative
                              4; Mismatches
                                              7:
                                                  Indels
                                                               Gaps
Qу
           6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
             1 MEIYTSDNYSEEVGSGDYDSNKEPCFRDENENFNRIFLPTIYFIIFLTGIVGNGLVILVM 60
Db
          66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qγ
             Db
          61 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 120
         126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
Οv
             Db
         121 VLILAFISLDRYLAIVHATNSQSARKLLAEKAVYVGVWIPALLLTIPDIIFADV-
Qy
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             Db
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Οv
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             Db
         236 KTTVILILAFFACWLPYYVGISIDSFILLEVIKQGCEFESVVHKWISITEALAFFHCCLN 295
         306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Oν
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Db
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ADE63145
TD
    ADE63145 standard; protein; 349 AA.
XX
AC
    ADE63145;
XX
DT
    29-JAN-2004 (first entry)
XX
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```
Rat Protein 008565, SEQ ID NO 9080.
XX
KW
    Rat; pain; neuronal tissue; gene therapy; spinal segmental nerve injury;
KW
    chronic constriction injury; CCI; spared nerve injury; SNI; Chung.
XX
os
    Rattus norvegicus.
XX
PN
    WO2003016475-A2.
XX
PD
    27-FEB-2003.
XX
    14-AUG-2002; 2002WO-US025765.
ΡF
XX
PR
    14-AUG-2001; 2001US-0312147P.
PR
    01-NOV-2001; 2001US-0346382P.
    26-NOV-2001; 2001US-0333347P.
PR
XX
PA
    (GEHO ) GEN HOSPITAL CORP.
    (FARB ) BAYER AG.
PA
XX
ΡI
    Woolf C, D'urso D, Befort K, Costigan M;
XX
DR
    WPI; 2003-268312/26.
DR
    GENBANK; 008565.
XX
PT
    New composition comprising two or more isolated polypeptides, useful for
PT
    preparing a medicament for treating pain in an animal.
XX
PS
    Claim 1; Page; 1017pp; English.
XX
CC
    The invention discloses a composition comprising two or more isolated rat
CC
    or human polynucleotides or a polynucleotide which represents a fragment,
CC
    derivative or allelic variation of the nucleic acid sequence. Also
CC
    claimed are a vector comprising the novel polynucleotide, a host cell
CC
    comprising the vector, a method for identifying a nucleotide sequence
CC
    which is differentially regulated in an animal subjected to pain and a
CC
    kit to perform the method, an array, a method for identifying an agent
CC
    that increases or decreases the expression of the polynucleotide sequence
CC
    that is differentially expressed in neuronal tissue of a first animal
CC
    subjected to pain, a method for identifying a compound which regulates
CC
    the expression of a polynucleotide sequence which is differentially
CC
    expressed in an animal subjected to pain, a method for identifying a
CC
    compound that regulates the activity of one or more of the
CC
    polynucleotides, a method for producing a pharmaceutical composition, a
CC
    method for identifying a compound or small molecule that regulates the
    activity in an animal of one or more of the polypeptides given in the
CC
CC
    specification, a method for identifying a compound useful in treating
CC
    pain and a pharmaceutical composition comprising the one or more
CC
    polypeptides or their antibodies. The polynucleotide or the compound that
CC
    modulates its activity is useful for preparing a medicament for treating
CC
    pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
    injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
CC
    therapy). The sequence presented is a rat protein (shown in Table 2 of
CC
     the specification) which is differentially expressed during pain. Note:
CC
    The sequence data for this patent did not form part of the printed
CC
    specification, but was obtained in electronic form directly from WIPO at
CC
    ftp.wipo.int/pub/published_pct_sequences.
XX
SO
    Sequence 349 AA;
                         93.4%; Score 1744.5; DB 7; Length 349;
  Query Match
  Best Local Similarity
                        95.5%; Pred. No. 9.9e-200;
  Matches 338; Conservative
                               4; Mismatches
                                                    Indels
                                                              5; Gaps
Qу
           6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
             1 MEIYTSDNYSEEVGSGDYDSNKEPCFRDENENFNRIFLPTIYFIIFLTGIVGNGLVILVM 60
Db
          66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qy
             Db
          61 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 120
Qy
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             121 VLILAFISLDRYLAIVHATNSQSARKLLAEKAVYVGVWIPALLLTIPDIIFADV----S 175
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             176 QGDGRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 235
Db
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Qν
             Db
         236 KTTVILILAFFACWLPYYVGISIDSFILLEVIKQGCEFESVVHKWISITEALAFFHCCLN 295
         306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qν
             296 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 349
Db
RESULT 10
AEE66169
ID
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AC
    AEE66169:
XX
    09-FEB-2006 (first entry)
DT
XX
DE
    Rat CXCR4, SEQ ID 2.
KW
    Cardiant; Cell therapy; stem cell; myocardial infarction;
KW
    CXC chemokine receptor 4.
os
    Rattus norvegicus.
XX
PN
    US2005271639-A1.
XX
PD
    08-DEC-2005.
XX
    04-JAN-2005; 2005US-00028922.
PF
XX
    22-AUG-2002; 2002US-0405274P.
PR
PR
    30-APR-2003; 2003US-00426712.
    19-MAY-2004; 2004US-0572349P.
PR
XX
PΑ
    (PENN/) PENN M S.
    (KIED/) KIEDROWSKI M.
PΑ
XX
ΡI
    Penn MS, Kiedrowski M;
XX
DR
    WPI; 2006-018799/02.
DR
    N-PSDB; AEE66171.
DR
    SWISSPROT; 008565.
XX
    New isolated stem cell genetically modified to express at least one of
    CXC chemokine receptor \overline{4} (CXCR4), SDF-1, or its variant, useful for
PT
РΤ
    treating myocardial infarction.
XX
    Claim 2; SEQ ID NO 2; 27pp; English.
PS
XX
CC
    The present invention relates to a novel isolated stem cell genetically
CC
    modified to express at least one of CXC chemokine receptor 4 (CXCR4),
CC
    stromal cell-derived factor-1 (SDF-1), or its variant thereof. The stem
CC
    cell is useful for treating myocardial infarction. CXCR4, also known as
CC
    CD184, leukocyte-derived seven transmembrane domain receptor (LESTR),
CC
    neuropeptide Y receptor Y3 (NPY3R), HM89 and FB22, is a G protein-coupled
CC
    receptor with selectivity for the chemokine SDF-1. CXCR4 mediates
CC
    chemotaxis in mature and progenitor blood cells and, together with its
CC
    ligand SDF-1, is essential for B lympho- and myelopoiesis. In addition to
CC
    hematopoiesis, CXCR4 is responsible for cardiac ventricular septum
CC
    formation, vascularization of the gastrointestinal tract and development
CC
    of cerebellar granule cells. The present sequence is a CXCR4, which was
CC
    used to illustrate the invention.
XX
SQ
    Sequence 349 AA;
                        93.4%; Score 1744.5; DB 10; Length 349;
 Query Match
 Best Local Similarity 95.5%; Pred. No. 9.9e-200;
 Matches 338; Conservative
                              4; Mismatches
                                             7: Indels
                                                             5: Gaps
                                                                        1:
           6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
Qy
             Db
           1 MEIYTSDNYSEEVGSGDYDSNKEPCFRDENENFNRIFLPTIYFIIFLTGIVGNGLVILVM 60
```

```
66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qу
          61 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 120
Db
       126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
Qу
           121 VLILAFISLDRYLAIVHATNSQSARKLLAEKAVYVGVWIPALLLTIPDIIFADV----S 175
Db
       · 186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Qy
          176 \ \mathsf{QGDGRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL \ 235
Db
       246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Qy
          Db
       236 KTTVILILAFFACWLPYYVGISIDSFILLEVIKQGCEFESVVHKWISITEALAFFHCCLN 295
       306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qу
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Db
RESULT 11
AAR68812
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XX
   AAR68812;
AC
XX
DT
   25-MAR-2003 (revised)
   18-JUL-1995 (first entry)
DT
XX
DE
   Human monocyte PF4AR.
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start | next page

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10785230 and Search Result 20070206_074020_us-10-785-230-3.rup.

Score Home

<u>Page</u>

Retrieve Application

SCORE System Overview

SCORE FAQ

Comments / Suggestions

This page gives you Search Results detail for the Application 10785230 and Search Result 20070206_074020_us-10-785-230-3.rup.

start | next page

Go Back to previous page

GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

List

February 6, 2007, 14:08:15; Search time 232 Seconds

(without alignments)

1660.742 Million cell updates/sec

Title:

US-10-785-230-3

Perfect score:

1867

Sequence: 1 MEPISVSIYTSDNYSEEVGS......KRGGHSSVSTESESSSFHSS 359

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched:

3281787 seqs, 1072124677 residues

Total number of hits satisfying chosen parameters:

3281787

Minimum DB seq length: 0

Maximum DB seq length: 2000000000 ·

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

UniProt 8.4:* 1: uniprot_sprot:* 2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

			**				
R	esult		Query				
	No.	Score	Match	Length	DB	ID	Description
						*	
	1.	1867	100.0	359	1	CXCR4_MOUSE	P70658 m c-x-c che
	2	1758.5	94.2	349	2	Q8VD47_RAT	Q8vd47 rattus norv
	3	1744.5	93.4	349	1	CXCR4_RAT	008565 rattus norv
	4	1692.5	90.7	352	2	Q7YS92_9EUTH	Q7ys92 tupaia chin
	5	1691.5	90.6	352	2	Q8HZU1 CALJA	Q8hzu1 callithrix
	6	1689.5	90.5	352	2	Q8HZUO SAISC	Q8hzuO saimiri sci
	7	1686.5	90.3	352	1	CXCR4 PAPAN .	P56491 papio anubi
	8	1679.5	90.0	352	1	CXCR4 MACFA	Q28474 macaca fasc
	9	1679.5	90.0	352	2	077488 CERAE	077488 cercopithec
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	12	1678.5	89.9	352	1	CXCR4 PANTR	P61072 pan troglod
	13	1678.5	89.9	352	2	Q53S69 HUMAN	Q53s69 homo sapien
	14	1677.5	89.9	347	2	Q9MZP7_9PRIM	Q9mzp7 presbytis s

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ALIGNMENTS

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RESULT 1
CXCR4 MOUSE
     CXCR4 MOUSE
                    STANDARD;
                                   PRT:
                                           359 AA.
     P70658; 009059; 009062; P70233; P70346; Q4KMW1;
DT
     01-NOV-1997, integrated into UniProtKB/Swiss-Prot.
DT
     01-NOV-1997, sequence version 2.
    13-JUN-2006, entry version 58.
    C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (Stromal cell-
DE
DE
     derived factor 1 receptor) (SDF-1 receptor) (Fusin) (Leukocyte-derived
     seven transmembrane domain receptor) (LESTR) (Pre-B-cell-derived
DE
     chemokine receptor) (PB-CKR) (CD184 antigen).
GN
     Name=Cxcr4; Synonyms=Cmkar4, Lestr, Sdflr;
    Mus musculus (Mouse).
OC
     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC
    Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
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RC.
     STRAIN=129/Sv, and C57BL/6J; TISSUE=Peritoneal exudate;
RX
    MEDLINE=97113334; PubMed=8955194;
     Heesen M., Berman M.A., Benson J.D., Gerard C., Dorf M.E.;
RT
     "Cloning of the mouse fusin gene, homologue to a human HIV-1 co-
RT
     factor.";
     J. Immunol. 157:5455-5460(1996).
RN
     [2]
RP
    NUCLEOTIDE SEQUENCE (ISOFORM CXCR4-B).
    TISSUE=Pre-B cell;
    MEDLINE=97121456; PubMed=8962122; DOI=10.1073/pnas.93.25.14726;
RX
RA
     Nagasawa T., Nakajima T., Tachibana K., Iizasa H., Bleul C.C.,
     Yoshie O., Matsushima K., Yoshida N., Springer T.A., Kishimoto T.;
RT
     "Molecular cloning and characterization of a murine pre-B-cell growth-
RT
     stimulating factor/stromal cell-derived factor 1 receptor, a murine
     homolog of the human immunodeficiency virus 1 entry coreceptor
RT
     fusin.";
RL
     Proc. Natl. Acad. Sci. U.S.A. 93:14726-14729(1996).
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Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases.
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RA
     Moepps B., Frodl R., Rodewald H.-R., Baggiolini M., Gierschik P.;
RT
     "Two murine homologues of the human chemokine receptor CXCR4 mediating
RT
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RT
     differentially expressed in vivo.";
RT.
     Eur. J. Immunol. 27:2102-2112(1997).
RN
RΡ
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RX
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     Heesen M., Berman M.A., Hoepken U.E., Gerard N.P., Dorf M.E.;
RТ
     "Alternate splicing of mouse fusin/CXC chemokine receptor-4: stromal
RT
     cell-derived factor-lalpha is a ligand for both CXC chemokine
     receptor-4 isoforms.";
RL
     J. Immunol. 158:3561-3564(1997).
RN
RP
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     STRAIN=C57BL/6; TISSUE=Thymus;
RC
RA
     Suzuki G., Nakata Y., Uzawa A., Shirasawa T., Saito T., Mita K.;
     Submitted (FEB-1997) to the EMBL/GenBank/DDBJ databases.
RN
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     STRAIN=FVB/N; TISSUE=Mammary gland;
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RХ
RA
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RA
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RA
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RA
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     Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
     Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
     Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
     Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA
RA
     Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RТ
     "Generation and initial analysis of more than 15,000 full-length human
     and mouse cDNA sequences.";
RT
     Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RT.
RN
RP
     ALTERNATIVE SPLICING.
RX
     MEDLINE=99095114; PubMed=9879064;
RA
     Frodl R., Gierschik P., Moepps B.;
     "Genomic organization and expression of the CXCR4 gene in mouse and
RT
     man: absence of a splice variant corresponding to mouse CXCR4-B in
RT
     human tissues.";
     J. Recept. Signal Transduct. Res. 18:321-344(1998).
RN
     [9]
RP
     FUNCTION.
    MEDLINE=98295994; PubMed=9634237; DOI=10.1038/31261;
RA
     Tachibana K., Hirota S., Iizasa H., Yoshida H., Kawabata K.,
RA
     Kataoka Y., Kitamura Y., Matsushima K., Yoshida N., Nishikawa S.,
     Kishimoto T., Nagasawa T.;
RТ
     "The chemokine receptor CXCR4 is essential for vascularization of the
RT
     gastrointestinal tract.";
RL
     Nature 393:591-594(1998).
RN
     [10]
RΡ
     FUNCTION.
    MEDLINE=98295995; PubMed=9634238; DOI=10.1038/31269;
RA
     Zou Y.-R., Kottmann A.H., Kuroda M., Taniuchi I., Littman D.R.;
RT
     "Function of the chemokine receptor CXCR4 in haematopoiesis and in
     cerebellar development.";
RI.
    Nature 393:595-599(1998).
RN
     [11]
RΡ
     DEVELOPMENTAL STAGE.
RC.
     STRAIN=ICR;
RX
     MEDLINE=99410349; PubMed=10479460; DOI=10.1006/dbio.1999.9405;
    McGrath K.E., Koniski A.D., Maltby K.M., McGann J.K., Palis J.;
```

```
"Embryonic expression and function of the chemokine SDF-1 and its
RT
     receptor, CXCR4.";
RL
     Dev. Biol. 213:442-456(1999).
     -!- FUNCTION: Receptor for the C-X-C chemokine CXCL12/SDF-1.
CC
         Transduces a signal by increasing the intracellular calcium ions
CC
         level. Involved in B-cell lymphopoiesis, bone-marrow myelopoiesis
CC
         and in cardiac ventricular septum formation. Plays also an
CC
         essential role in vascularization of the gastrointestinal tract,
CC
         probably by regulating vascular branching and/or remodelling
CC
         processes in endothelial cells. Involved in cerebellar neuronal
CC
         layer formation, preventing premature migration of proliferating
CC
         granule cells from the external granule layer inwards. In the CNS,
CC
         could mediate hippocampal-neuron survival.
CC
     -!- SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein.
     -!- ALTERNATIVE PRODUCTS:
CC
         Event=Alternative splicing; Named isoforms=2;
CC
         Name=CXCR4-B; Synonyms=LESTR-B;
CC
           IsoId=P70658-1; Sequence=Displayed;
CC
         Name=CXCR4-A; Synonyms=LESTR-A;
           IsoId=P70658-2; Sequence=VSP_001891;
CC
     -!- TISSUE SPECIFICITY: Lymphocytes, macrophages, neutrophils,
CC
         microglial cells and astrocytes. Found in spleen, thymus, bone
CC
         marrow, lymph nodes and, at lower levels in brain, small
CC
         intestine, stomach and kidney. CXCR4-A is predominant in all
CC
         tissues tested.
CC
     -!- DEVELOPMENTAL STAGE: High expression during embryonic development
         does not seem to be associated with the differentiation of any
CC
         particular cell type, but is widely utilized when there is a
CC
         requirement for cell movement. Frequently associated with less
CC
         differentiated cell types and down-regulated with subsequent
CC
         differentiation. Detected in sites with haemopoietic potential:
CC
         the yolk sac (7.5, 8.5 and 12.5 dpc) and fetal liver (12.5 dpc).
CC
         During gastrulation, at 7.2 to 7.8 dpc, expressed in the mesoderm
CC
         and the definitive endoderm. As gastrulation pattern fades (8.5
CC
         dpc), expression in the mesoderm is down-regulated, while it
CC
         becomes predominant in neural ectoderm. Endodermal expression is
CC
         retained in the foregut and later in a subset of foregut
CC
         derivatives, including the stomach (10.5 dpc), the cystic ducts of
CC
         the gall bladder and the lung epithelium (12.5 dpc). In neuronal
         tissue: at 10.5 and 12.5 dpc, expressed in the dorsal root
CC
CC
         ganglia, in the ventral mantle layer of the spinal cord (or basal
CC
         plates), in the hindbrain. At 14.5 dpc, expression more tightly
CC
         confined to the neural epithelium lining the ventricular space and
CC
         to the external granular layer of the ventral rhombic lip (the
CC
         developing cerebellum). Expressed in the outpocketing of the
         diencephalic floor at 10.5 dpc and in the developing thalamus and,
CÇ
CC
         to a lesser extent, the developing hypothalamus. At 14.5 dpc,
CC
         restricted to the region where thalamus and hypothalamus meet.
CC
         Detected in a discrete band of cells at the edge of the olfactory
CC
         bulb. In the vascular system: expressed in the endothelium of
CC
         numerous blood vessels, but not all, at 10.5, 11.5 and 12.5 dpc,
         such as vitelline/umbilical vessels, cardiac ventricular wall
CC
         capillaries, facial vessels and, at 14.5 pdc, in the vasculature
CC
         of the herniated gut. Expression seems to be associated with
         expanding vascular networks. In the heart development, expressed
CC
         at 10.5 dpc in the precursor to the aortopulmonary (AP) septum. At
CC
         12.5 dpc, detected in the AP septum at the base of the outflow
CC
         tract and in the atrioventricular valves. Detected in cranofacial
CC
         ectoderm from 10.5 to 14.5 dpc. At 10.5 and 11.5 dpc, expressed in
CC
         the Rathke pouch.
CC
     -!- PTM: Sulfated (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
     Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
CC
     Distributed under the Creative Commons Attribution-NoDerivs License
CC
DR
     EMBL; U59760; AAB07725.1; -; mRNA.
    EMBL; U65580; AAC52953.1; -; Genomic_DNA.
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DR
     EMBL; Z80111; CAB02201.1; -; mRNA.
DR
     EMBL; Z80112; CAB02202.1; -; mRNA.
    EMBL; X99581; CAA67893.1; -; Genomic_DNA.
EMBL; X99582; CAA67894.1; -; mRNA.
DR
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     EMBL; AB000803; BAA19187.1; -; mRNA.
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     EMBL; BC098322; AAH98322.1; -; mRNA.
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    GO; GO:0007281; P:germ cell development; IMP.
    GO; GO:0008354; P:germ cell migration; IMP.
    GO; GO:0008045; P:motor axon guidance; IMP.
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    01-MAR-2002, integrated into UniProtKB/TrEMBL.
    01-MAR-2002, sequence version 1.
    04-APR-2006, entry version 27.
DE
    Chemokine receptor CXCR4 (CXC chemokine receptor).
    Name=Cxcr4;
GN
OS
    Rattus norvegicus (Rat).
OC
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OC
    Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC.
    Muroidea; Muridae; Murinae; Rattus.
ΟX
    NCBI TaxID=10116;
RN
    [1]
RP
    NUCLEOTIDE SEQUENCE.
    STRAIN=Holtzman; TISSUE=Whole brain;
RA
    Simen A.A., Miller R.J.;
RT.
    Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
RN
    NUCLEOTIDE SEQUENCE.
RP
RC.
    TISSUE=Thymus;
    MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
    Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA
RA
    Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA
    Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA
    Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
    Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
    Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA
    Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA
    Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA
    Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
    Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA
    Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA
```

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Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
PΑ
    Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
    Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
    Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RA
RT
    "Generation and initial analysis of more than 15,000 full-length human
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    Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RI.
RN
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    TISSUE=Thymus;
RC.
    Director MGC Project;
RL
    Submitted (FEB-2005) to the EMBL/GenBank/DDBJ databases.
CC
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
DR
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    EMBL; BC089804; AAH89804.1; -; mRNA.
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    UniGene; Rn.44431; -.
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DR
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DR
    GO; GO:0004872; F:receptor activity; IEA.
    GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
DR
    GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; IEA.
DR
    GO; GO:0007165; P:signal transduction; IEA.
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    InterPro; IPR000276; GPCR_Rhodpsn.
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    PRINTS; PR00237; GPCRRHODOPSN.
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KW
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 Best Local Similarity
                     96.0%; Pred. No. 4.7e-129;
 Matches 340: Conservative
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                                                          5; Gaps
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           6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM
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RESULT 3
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                  STANDARD;
                               PRT;
AC.
    008565;
    01-NOV-1997, integrated into UniProtKB/Swiss-Prot.
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01-JUL-1997, sequence version 1.
     27-JUN-2006, entry version 44.
    C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (Stromal cell-
DE
     derived factor 1 receptor) (SDF-1 receptor) (Fusin) (Leukocyte-derived
DE
    seven transmembrane domain receptor) (LESTR) (CD184 antigen).
GN
     Name=Cxcr4; Synonyms=Cmkar4;
os
     Rattus norvegicus (Rat).
OC.
     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC
     Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
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OX
     NCBI TaxID=10116;
RN
RP
     NUCLEOTIDE SEQUENCE [MRNA].
     STRAIN=Wistar; TISSUE=Spleen;
RC
RA
     Harrison J.K., Salafranca M.N.;
     "Molecular cloning of rat CXCR4.";
RT
     Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.
RL
CC
     -!- FUNCTION: Receptor for the C-X-C chemokine CXCL12/SDF-1.
CC
         Transduces a signal by increasing the intracellular calcium ions
CC
         level. Involved in B-cell lymphopoiesis, bone-marrow myelopoiesis
CC
         and in cardiac ventricular septum formation. Plays also an
CC
         essential role in vascularization of the gastrointestinal tract,
CC
         probably by regulating vascular branching and/or remodelling
CC
         processes in endothelial cells. Involved in cerebellar neuronal
CC
         layer formation, preventing premature migration of proliferating
CC
         granule cells from the external granule layer inwards. In the CNS,
CC
         could mediate hippocampal-neuron survival (By similarity).
CC
     -!- SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein.
CC
     -!- TISSUE SPECIFICITY: Expressed in neurons and in astrocytes.
CC
     -!- PTM: Sulfated (By similarity).
CC
     -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
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CC
     Distributed under the Creative Commons Attribution-NoDerivs License
CC
DR
     EMBL: U90610: AAB50408.1: -: mRNA.
DR
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     GO; GO:0008038; P:neuron recognition; IEP.
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     InterPro; IPR001277; CXC_4_rcpt.
DR
     InterPro; IPR000276; GPCR_Rhodpsn.
     Pfam; PF00001; 7tm 1; 1.
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     PRINTS; PRO0657; CCCHEMOKINER.
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     PRINTS; PRO0237; GPCRRHODOPSN.
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     PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
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                         96
                                   2 (Potential).
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Οv
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ID
    01-OCT-2003, integrated into UniProtKB/TrEMBL.
    01-OCT-2003, sequence version 1.
    21-FEB-2006, entry version 16.
    Chemokine receptor CXCR4.
DE
os
    Tupaia chinensis (Chinese tree shrew).
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC
    Mammalia; Eutheria; Euarchontoglires; Scandentia; Tupaiidae; Tupaia.
OX
    NCBI_TaxID=246437;
RP
    NUCLEOTIDE SEQUENCE.
RA
    Yang M., Ben K.;
    "Cloning and sequence analysis of HIV-1 related genes of CD4, CXCR4
RT
    and CCR5 from tree shrew.";
    Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
RI.
CC
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
DR
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    GO; GO:0016020; C:membrane; IEA.
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    GO; GO:0004872; F:receptor activity; IEA.
DR
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    GO; GO:0007165; P:signal transduction; IEA.
DR
DR
    InterPro; IPR000355; Chmkine_rcpt.
    InterPro; IPR001277; CXC 4 rcpt.
    InterPro; IPR000276; GPCR_Rhodpsn.
DR
DR
    Pfam; PF00001; 7tm 1; 1.
    PRINTS; PR00657; CCCHEMOKINER.
    PRINTS; PRO0645; CXCCHMKINER4.
DR
DR
    PRINTS; PRO0237; GPCRRHODOPSN.
    PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1. PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
DR
DR
    G-protein coupled receptor; Membrane; Receptor; Transducer;
KW
KW
    Transmembrane.
SO
    SEQUENCE
             352 AA; 39719 MW; 606B07A6D46A7D53 CRC64;
                       90.7%; Score 1692.5; DB 2; Length 352;
  Query Match
                       91.2%; Pred. No. 6.8e-124;
  Best Local Similarity
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Matches 323; Conservative
                            15; Mismatches
                                             11;
                                                Indels
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           6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
Qу
            Db
           4 ISIYTSDNYSEELGSGDYDSIKEPCFREENAHFNRIFLPTIYSIIFLTGIVGNGLVILVM 63
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             64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
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Qν
             179 EAEDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
Db
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Qу
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                               PRT:
                                      352 AA.
    O8HZU1;
    01-MAR-2003, integrated into UniProtKB/TrEMBL.
    01-MAR-2003, sequence version 1.
DT
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    30-MAY-2006, entry version 19.
    Chemokine receptor CXCR4.
os
    Callithrix jacchus (Common marmoset).
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC.
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC
    Platyrrhini; Cebidae; Callitrichinae; Callithrix.
OX
    NCBI_TaxID=9483;
RN
    [1]
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    NUCLEOTIDE SEQUENCE.
    MEDLINE=22174698; PubMed=12186836; DOI=10.1084/jem.20020468;
RX
    LaBonte J.A., Babcock G.J., Patel T., Sodroski J.;
RA
    "Blockade of HIV-1 infection of New World monkey cells occurs
RT
    primarily at the stage of virus entry.";
RL
    J. Exp. Med. 196:431-445(2002).
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
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CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
DR
    EMBL; AF452612; AAN14528.1; -; mRNA.
    GO; GO:0016021; C:integral to membrane; IEA.
DR
DR
    GO; GO:0016020; C:membrane; IEA.
    GO; GO:0016493; F:C-C chemokine receptor activity; IEA.
    GO; GO:0016494; F:C-X-C chemokine receptor activity; IEA.
DR
    GO; GO:0004872; F:receptor activity; IEA.
    GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
    GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; IEA.
DR
DR
    GO; GO:0007165; P:signal transduction; IEA.
    InterPro; IPR000355; Chmkine rcpt.
    InterPro; IPR001277; CXC 4 rcpt.
DR
DR
    InterPro; IPR000276; GPCR_Rhodpsn.
    Pfam; PF00001; 7tm_1; 1.
    PRINTS; PR00657; CCCHEMOKINER.
DR
    PRINTS; PRO0645; CXCCHMKINER4.
    PRINTS; PRO0237; GPCRRHODOPSN.
    PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
DR
    PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
DR
    G-protein coupled receptor; Membrane; Receptor; Transducer;
KW
KW
    Transmembrane.
    SEQUENCE
             352 AA; 39803 MW; 8018A4500FC887C0 CRC64;
                       90.6%; Score 1691.5; DB 2; Length 352;
 Query Match
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Best Local Similarity 90.7%; Pred. No. 8.1e-124;
 Matches 321; Conservative
                           18; Mismatches 10;
                                                 Indels
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Qу
            4 ISIYTSDNYTEEIGSGDYDSIKEPCFREENAHFNRIFLPTIYSIIFLTGIVGNGLVILVM 63
Db
          66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qy
            64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGKFLCKAVHVIYTVNLYSS 123
Dh
         126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
Qу
            124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV--
         186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
0ν
            179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
Dh
         246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Ov
            Db
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         306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qу
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                 PRELIMINARY;
                               PRT:
                                      352 AA.
ID
AC
    01-MAR-2003, integrated into UniProtKB/TrEMBL.
    01-MAR-2003, sequence version 1.
    30-MAY-2006, entry version 19.
    Chemokine receptor {\tt CXCR4.}
DE
os
    Saimiri sciureus (Common squirrel monkey).
OC
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC
OC.
    Platyrrhini; Cebidae; Saimiriinae; Saimiri.
OX
    NCBI_TaxID=9521;
RN
    111
RP
    NUCLEOTIDE SEQUENCE.
    MEDLINE=22174698; PubMed=12186836; DOI=10.1084/jem.20020468;
    LaBonte J.A., Babcock G.J., Patel T., Sodroski J.;
RA
RT
    "Blockade of HIV-1 infection of New World monkey cells occurs
    primarily at the stage of virus entry.";
    J. Exp. Med. 196:431-445(2002).
RL
CC
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
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CC
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
    EMBL; AF452613; AAN14529.1; -; mRNA.
DR
    GO; GO:0016021; C:integral to membrane; IEA.
    GO; GO:0016020; C:membrane; IEA.
DR
    GO; GO:0016493; F:C-C chemokine receptor activity; IEA.
DR
    GO; GO:0016494; F:C-X-C chemokine receptor activity; IEA.
    GO; GO:0004872; F:receptor activity; IEA.
DR
    GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
DR
    GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; IEA.
    GO; GO:0007165; P:signal transduction; IEA.
DR
DR
    InterPro; IPR000355; Chmkine_rcpt.
    InterPro; IPR001277; CXC_4_rcpt.
    InterPro; IPR000276; GPCR Rhodpsn.
DR
DR
    Pfam; PF00001; 7tm_1; 1.
    PRINTS; PRO0657; CCCHEMOKINER.
    PRINTS; PRO0645; CXCCHMKINER4.
DR
DR
    PRINTS; PRO0237; GPCRRHODOPSN.
    PROSITE; PS00237; G PROTEIN RECEP F1 1; 1.
    PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
DR
    G-protein coupled receptor; Membrane; Receptor; Transducer;
KW
KW
    Transmembrane.
SQ
    SEQUENCE
              352 AA; 39821 MW; BF1A21FB0C8D4487 CRC64;
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Query Match
                       90.5%; Score 1689.5; DB 2; Length 352;
  Best Local Similarity 90.7%; Pred. No. 1.2e-123;
                            18; Mismatches
  Matches 321; Conservative
                                                 Indels
                                                           5; Gaps
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Db
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Qν
             Db
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Qу
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Qy
             Db
         179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
Qу
         246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
             Db
         239 KTTVILILAFFACWLPYYIGISIDSFILLEIIRQGCEFENTVHKWISITEALAFFHCCLN 298
         306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qv
             Db
         299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 7
CXCR4 PAPAN
    CXCR4 PAPAN
                  STANDARD;
                               PRT; 352 AA.
    P56491;
AC
    15-JUL-1998, integrated into UniProtKB/Swiss-Prot.
    15-JUL-1998, sequence version 1.
DT
    18-APR-2006, entry version 33.
    C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (SDF-1 receptor)
DF.
DE
    (Stromal cell-derived factor 1 receptor) (Fusin) (CD184 antigen).
GN
    Name=CXCR4;
OS
    Papio anubis (Olive baboon).
OC
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
    Catarrhini; Cercopithecidae; Cercopithecinae; Papio.
OC
OX
    NCBI_TaxID=9555;
RN
    NUCLEOTIDE SEQUENCE [MRNA].
RP
RX
    MEDLINE=98346785; PubMed=9683255; DOI=10.1016/S0161-5890(98)00016-9;
RA
    Benton P.A., Lee D.R., Kennedy R.C.;
RT
    "Sequence comparisons of non-human primate HIV-1 coreceptor
RT
    homologues.";
RL
    Mol. Immunol. 35:95-101(1998).
    -!- FUNCTION: Receptor for the C-X-C chemokine CXCL12/SDF-1.
CC
CC
        Transduces a signal by increasing the intracellular calcium ions
CC
        level (By similarity).
    -!- SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein.
CC
CC
    -!- PTM: Sulfated (By similarity).
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
CC
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CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
DR
    EMBL; AF031089; AAC63831.1; -; mRNA.
    InterPro; IPR000355; Chmkine rcpt.
DR
    InterPro; IPR001277; CXC 4 rcpt.
DR
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    InterPro; IPR000276; GPCR Rhodpsn.
    Pfam; PF00001; 7tm_1; 1.
    PRINTS; PRO0657; CCCHEMOKINER.
DR
DR
    PRINTS; PROO645; CXCCHMKINER4.
    PRINTS; PRO0237; GPCRRHODOPSN.
    PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
DR
    PROSITE; PS50262; G_PROTEIN_RECEP F1 2; 1.
DR
    G-protein coupled receptor; Glycoprotein; Membrane; Receptor;
KW
    Sulfation; Transducer; Transmembrane.
FT
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FT
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    TOPO_DOM
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FT
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                100
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                111
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FT
     TOPO DOM
                133
                               Cytoplasmic (Potential).
                      154
     TRANSMEM
FT
                155
                      175
                               4 (Potential).
     TOPO DOM
                176
                      200
                               Extracellular (Potential).
     TRANSMEM
                201
FT
                      220
                               5 (Potential).
     TOPO_DOM
FT
                221
                      240
                               Cytoplasmic (Potential).
     TRANSMEM
FT
                241
                      261
                               6 (Potential).
     TOPO DOM
FT
                262
                      285
                               Extracellular (Potential).
FΤ
     TRANSMEM
                286
                      305
                               7 (Potential).
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                306
                      352
                               Cytoplasmic (Potential).
FT
    MOD RES
                21
                       21
                               Sulfotyrosine (Potential).
                               N-linked (GlcNAc. . .) (Potential).
FT
     CARBOHYD
                11
                       11
FT
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                109
                               By similarity.
                      186
SO
     SEQUENCE
               352 AA; 39752 MW; 468E542E1851265A CRC64;
  Query Match
                        90.3%; Score 1686.5; DB 1; Length 352;
  Best Local Similarity 90.7%; Pred. No. 2e-123;
  Matches 321; Conservative
                            16; Mismatches
                                             12; Indels
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Qу
             4 ISIYTSDNYTEEMGSGDYDSIKEPCFREENAHFNRIFLPTIYSIIFLTGIVGNGLVILVM 63
Db
          66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qγ
             Db
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. Qy
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             Db
         124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFASV----S 178
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Qy
              Db
         179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
Qу
         246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
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         239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
Qy
         306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
             299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Db
RESULT 8
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     CXCR4_MACFA
                  STANDARD:
                                PRT; 352 AA.
     028474:
AC
     15-JUL-1998, integrated into UniProtKB/Swiss-Prot.
     01-NOV-1996, sequence version 1.
    18-APR-2006, entry version 35:
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    C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (SDF-1 receptor)
     (Stromal cell-derived factor 1 receptor) (Fusin) (LESTR) (CD184
DE
    antigen).
GN
    Name=CXCR4;
os
    Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC
OC
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC
     Catarrhini; Cercopithecidae; Cercopithecinae; Macaca.
OX
    NCBI_TaxID=9541;
RN
     [1]
    NUCLEOTIDE SEQUENCE [MRNA].
    Tatsumi M., Takahashi H.;
RA
RT
     "Monkey CD4 and fusin are not species barrier for HIV-1 replication.";
     Submitted (JUL-1996) to the EMBL/GenBank/DDBJ databases.
     -!- FUNCTION: Receptor for the C-X-C chemokine CXCL12/SDF-1.
CC
CC
        Transduces a signal by increasing the intracellular calcium ions
CC
        level (By similarity).
CC
    -!- SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein.
CC
    -!- PTM: Sulfated (By similarity).
CC
     -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
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CC
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    Distributed under the Creative Commons Attribution-NoDerivs License
CC
CC
    EMBL; D86579; BAA13126.1; -; mRNA.
DR
    PIR; G00048; G00048.
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DR
DR
    InterPro; IPR001277; CXC_4_rcpt.
DR
    InterPro; IPR000276; GPCR Rhodpsn.
    Pfam; PF00001; 7tm 1; 1.
DR
DR
    PRINTS; PRO0657; CCCHEMOKINER.
    PRINTS; PRO0645; CXCCHMKINER4.
    PRINTS; PRO0237; GPCRRHODOPSN.
DR
    PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
    PROSITE; PS50262; G PROTEIN RECEP F1 2; 1.
DR
ΚW
    G-protein coupled receptor; Glycoprotein; Membrane; Receptor;
    Sulfation; Transducer; Transmembrane.
                               C-X-C chemokine receptor type 4.
FT
    CHAIN
                     352
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FT
                               /FTId=PRO_0000069353.
    TOPO DOM
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    TRANSMEM
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                      63
                               1 (Potential).
FT
    TOPO DOM
                64
                      79
                               Cytoplasmic (Potential).
    TRANSMEM
                80
                      99
                               2 (Potential).
    TOPO DOM
FΤ
               100
                     110
                               Extracellular (Potential).
FT
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                     132
                               3 (Potential).
    TOPO DOM
                     154
FT
               133
                               Cytoplasmic (Potential).
FT
    TRANSMEM
               155
                     175
                               4 (Potential).
    TOPO DOM
                     200
FT
               176
                               Extracellular (Potential).
    TRANSMEM
               201
FT
                     220
                               5 (Potential).
FΤ
    TOPO DOM
               221
                     240
                               Cytoplasmic (Potential).
    TRANSMEM
FT
               241
                     261
                               6 (Potential).
FΤ
    TOPO DOM
               262
                     285
                               Extracellular (Potential).
FT
    TRANSMEM
               286
                     305
                               7 (Potential).
FT
    TOPO DOM
               306
                     352
                               Cytoplasmic (Potential).
                      21
FT
    MOD_RES
                21
                               Sulfotyrosine (Potential).
                               N-linked (GlcNAc. . .) (Potential).
FT
    CARBOHYD
                11
                      11
FT
    DISULFID
               109
                     186
                               By similarity.
SO
    SEQUENCE
              352 AA;
                      39753 MW;
                                432DA6C11859EF8A CRC64;
                       90.0%; Score 1679.5; DB 1; Length 352;
 Query Match
                       90.1%; Pred. No. 7.1e-123;
 Best Local Similarity
 Matches 319; Conservative 17; Mismatches
                                            13; Indels
                                                                      1;
                                                           5: Gaps
           6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
Qу
            Db
           4 ISIYTSDNYTEEMGSGDYDSIKEPCFREENAHFNRIFLPTIYSIIFLTGIVGNGLVILVM 63
Qу
          66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
            Db
          64 GYQKKLRSMTDKYRLHLSVADLLYVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
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Qy
             DЬ
         179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
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DT
    01-NOV-1998, integrated into UniProtKB/TrEMBL.
DT
    01-NOV-1998, sequence version 1.
    30-MAY-2006, entry version 31.
DE
    CXCR4 receptor.
OS
    Cercopithecus aethiops (Green monkey) (Grivet).
```

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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
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    Catarrhini; Cercopithecidae; Cercopithecinae; Cercopithecus.
ΟX
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RN
    [1]
RP
    NUCLEOTIDE SEQUENCE.
RA
    Murayama Y., Matsunaga S., Inoue-Murayama M.;
RL
    Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.
    -!- SUBCELLULAR LOCATION: Membrane (By similarity).
CC
CC
    -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.
CC
     CC
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
    EMBL; AB015943; BAA31327.1; -; mRNA.
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    GO; GO:0016021; C:integral to membrane; IEA.
DR
    GO; GO:0016020; C:membrane; IEA.
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    GO; GO:0016493; F:C-C chemokine receptor activity; IEA.
    GO; GO:0016494; F:C-X-C chemokine receptor activity; IEA.
DR
    GO; GO:0004872; F:receptor activity; IEA.
    GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
DR
    GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; IEA.
DR
    GO; GO:0007165; P:signal transduction; IEA.
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    InterPro; IPR001277; CXC 4 rcpt.
    InterPro; IPR000276; GPCR_Rhodpsn.
DR
    Pfam; PF00001; 7tm_1; 1.
DR
    PRINTS; PRO0657; CCCHEMOKINER.
    PRINTS; PR00645; CXCCHMKINER4.
DR
    PRINTS; PR00237; GPCRRHODOPSN.
DR
    PROSITE; PS00237; G PROTEIN RECEP F1 1; 1.
    PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
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start | next page

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details f

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This page gives you Search Results detail for the Application 10785230 and Search Result 2007020 start

GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

Run on: February 6, 2007, 14:15:46; Search time 26 Seconds

(without alignments)

1315.579 Million cell updates/sec

Title: US-10-785-230-3

Perfect score: 1867

Sequence: 1 MEPISVSIYTSDNYSEEVGS......KRGGHSSVSTESESSSFHSS 359

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR_80:*
1: pirl:*

2: pir2:*
3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		ъ				•
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1	1679.5	90.0	352	2	G00048	fusin (LESTRA) - c
2	1678.5	89.9	352	2	A45747	neuropeptide Y/pep
3	1631	87.4	353	2	S28787	neuropeptide Y/pep
4	585.5	31.4	367	2	JE0349	interferon-inducib
5	570.5	30.6	360	2	A57160	chemokine (C-C) re
6	551.5	29.5	355	2	JQ1231	interleukin-8 rece
7	550.5	29.5	378	2	A55735	G protein-coupled
8	547.5	29.3	356	2	S42096	interleukin-8 rece
9	544.5	29.2	358	2	A53752	interleukin-8 rece
10	544.5	29.2	360	2	A53611	interleukin-8 rece
11	537.5	28.8	378	2	B55735	lymphocyte-specifi
12	535	28.7	369	2	JC5068	G protein-coupled
13	533	28.5	355	2	JC4304	orphan G protein-c
14	530	28.4	360	2	JC4587	chemokine (C-C) re
15	526.5	28.2	327	2	S56162	MDCR15 protein - h
16	523.5	28.0	359	2	A48921	interleukin-8 rece
17	522.5	28.0	350	2	A39445	interleukin-8 rece
18	522.5	28.0	372	2	S26667	G protein-coupled
19	518.5	27.8	378	2	A45680	G protein-coupled

20	517.5	27.7	374	2	S42628	G protein-coupled
21	508.5	27.2	374	2	S32785	G protein-coupled
22	507	27.2	383	2	S55594	G protein-coupled
23	501	26.8	354	2	158186	probable G protein
24	496	26.6	374	2	138450	chemokine (C-C) re
25	494	26.5	355	2	JC5067	G protein-coupled
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27	483.5	25.9	352	2	A43113	chemokine (C-C) re
28	479.5	25.7	360	2	JC2443	chemokine (C-C) re
29	476.5	25.5	355	. 2	G02436	chemokine (C-C) re
30	473.5	25.4	359	2	S15403	angiotensin II rec
31	472.5	25.3	355	2	A45177	chemokine (C-C) re
32	463.5	24.8	359	2	JC1104	angiotensin II rec
33	463.5	24.8	362	2	JN0694	angiotensin II rec
34	460	24.6	362	2	A30341	G protein-coupled
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36	459.5	24.6	359	2	JH0621	angiotensin II rec
37	459.5	24.6	359	2	A42656	angiotensin II rec
38	459.5	24.6	359	2	JC2134	angiotensin II rec
39	457.5	24.5	359	2	A48857	angiotensin II rec
40	453.5	24.3	359	2	JQ1516	angiotensin II rec
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42	448	24.0	362	2	A39714	G protein-coupled
43	447.5	24.0	359	2	149341	MIP-1 alpha recept
44	445.5	23.9	359	2	I39418	angiotensin II rec
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ALIGNMENTS

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C; Accession: G00048
R; Tatsumi, M.
submitted to GenBank, July 1996
A; Reference number: H00048
A; Accession: G00048
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 1-352 <TAT>
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C;Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 09-Jul-2004
C; Accession: A45747; A53103; Ī53006; I59444; I69203; S32761
R; Federsppiel, B.; Melhado, I.G.; Duncan, A.M.V.; Delaney, A.; Schappert, K.; Clark-Lewis, I.; Jirik, F.R.
Genomics 16, 707-712, 1993
A; Title: Molecular cloning of the cDNA and chromosomal localization of the gene for a putative seven-transm
A; Reference number: A45747; MUID: 93315164; PMID: 8325644
A; Accession: A45747
A; Molecule type: mRNA
A; Residues: 1-352 <FED>
A; Cross-references: UNIPROT: P61073; UNIPARC: UPI000000106C; GB: M99293; NID: q292516; PIDN: AAA16617.1; PID: q29
R; Loetscher, M.; Geiser, T.; O'Reilly, T.; Zwahlen, R.; Baggiolini, M.; Moser, B.
J. Biol. Chem. 269, 232-237, 1994
A; Title: Cloning of a human seven-transmembrane domain receptor, LESTR, that is highly expressed in leukocy
A; Reference number: A53103; MUID: 94103215; PMID: 8276799
A; Accession: A53103
A; Molecule type: mRNA
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A; Cross-references: UNIPARC: UPI000000106C; EMBL: X71635; NID: q297099; PIDN: CAA50641.1; PID: q297100
R; Herzog, H.; Hort, Y.J.; Shine, J.; Selbie, L.A. DNA Cell Biol. 12, 465-471, 1993
A; Title: Molecular cloning, characterization, and localization of the human homolog to the reported bovine
A; Reference number: I53006; MUID: 93319629; PMID: 8329116
A; Accession: I53006
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 1-352 <HER>
A; Cross-references: UNIPARC: UPI000000106C; GB:L06797; NID:g414929; PIDN:AAA03209.1; PID:g414928
R; Jazin, E.E.; Yoo, H.; Blomqvist, A.G.; Yee, F.; Weng, G.; Walker, M.W.; Salon, J.; Larhammar, D.; Wahlest
Regul. Pept. 47, 247-258, 1993
A; Title: A proposed bovine neuropeptide Y (NPY) receptor cDNA clone, or its human homologue, confers neithe
A; Reference number: I59444; MUID: 94052833; PMID: 8234909
A; Accession: I59444
A; Status: preliminary; translated from GB/EMBL/DDBJ
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A; Residues: 1-352 < RE2>
A; Cross-references: UNIPARC: UPI00000010bC; GB:L01639; NID:g189313; PIDN:AAA16594.1; PID:g189314 .
R; Nomura, H.; Nielsen, B.W.; Matsushima, K.
Int. Immunol. 5, 1239-1249, 1993
A; Title: Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte chemotactic peptide rec
A; Reference number: I54751; MUID: 94092629; PMID: 7505609
A: Accession: I69203
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
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C; Keywords: G protein-coupled receptor; transmembrane protein
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C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 09-Jul-2004
C; Accession: S28787
R; Rimland, J.; Xin, W.; Sweetnam, P.; Saijoh, K.; Nestler, E.J.; Duman, R.S.
Mol. Pharmacol. 40, 869-875, 1991
A; Title: Sequence and expression of a neuropeptide Y receptor cDNA.
A; Reference number: S28787; MUID: 92100053; PMID: 1661837
A: Accession: S28787
A; Molecule type: mRNA
A; Residues: 1-353 <RIM>
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C;Date: 05-Feb-1999 #sequence_revision 05-Feb-1999 #text_change 09-Jul-2004
C; Accession: JE0349
R; Tamaru, M.; Tominaga, Y.; Yatsunami, K.; Narumi, S.
Biochem. Biophys. Res. Commun. 251, 41-48, 1998
A; Title: Cloning of the murine interferon-inducible protein 10 (IP-10) receptor and its specific expression
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A; Accession: JE0349
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C; Species: Homo sapiens (man)
C;Date: 10-Nov-1995 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C:Accession: A57160
R; Power, C.A.; Meyer, A.; Nemeth, K.; Bacon, K.B.; Hoogewerf, A.J.; Proudfoot, A.E.I.; Wells, T.N.C.
J. Biol. Chem. 270, 19495-19500, 1995
A; Title: Molecular cloning and functional expression of a novel CC chemokine receptor cDNA from a human bas
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F;243-264/Domain: transmembrane #status predicted <TM6>
F;291-308/Domain: transmembrane #status predicted <TM7>
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F;145/Binding site: phosphate (Ser) (covalent) (by protein kinase C) #status predicted
F;183,194/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;321/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted
 Query Match 30.6%; Score 570.5; DB 2; Length 360; Best Local Similarity 37.4%; Pred. No. 3.1e-42;
 Matches 120; Conservative 63; Mismatches 125; Indels 13; Gaps
           1 \ \texttt{MEPISVSIYTSDNYSEEVGSGD--YDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGN} \ \ 58
Qу
             Db
           1 MNPTDIADTTLD---ESIYSNYYLYESIPKPCTKEGIKAFGELFLPPLYSLVFVFGLLGN 57
          59 GLVILVMGYQKKLRSMTDKYRLHLSVAÐLLFVITLPFWAVDAMADWYFGKFLCKAVHIIY 118
Qy
             58 SVVVLVLFKYKRLRSMTDVYLLNLAISDLLFVFSLPFWGYYAADQWVFGLGLCKMISWMY 117
Db
         119 TVNLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFAD 178
Οv
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118 LVGFYSGIFFVMLMSIDRYLAIVHAVFSLRARTLTYGVITSLATWSVAVFASLPGFLFST 177
Db
Qу
         179 VSQGDISQGDDRYICDRLYP--DSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHS 236
                  Dh
         178 C----YTERNHTY-CKTKYSLNSTTWKVLSSLEINILGLVIPLGIMLFCYSMIIRTLQHC 232
         237 KGHQKRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEA 296
Qу
             233 KNEKKNKAVKMIFAVVVLFLGFWTPYNIVLFLETLVELEVL-QDCTFERYLDYAIQATET 291
Db
         297 LAFFHCCLNPILYAFLGAKFK 317
Qy
             111 1111111:1 111 11:
Db
         292 LAFVHCCLNPIIYFFLGEKFR 312
RESULT 6
interleukin-8 receptor - rabbit
C; Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 09-Jul-2004
C; Accession: JQ1231; A46483
R;Beckmann, M.P.; Munger, W.E.; Kozlosky, C.; VandenBos, T.; Price, V.; Lyman, S.; Gerard, N.P.; Gerard, C.
Biochem. Biophys. Res. Commun. 179, 784-789, 1991
A; Title: Molecular characterization of the interleukin-8 receptor.
A; Reference number: JQ1231; MUID:91378994; PMID:1898400
A; Accession: JQ1231
A; Molecule type: DNA
A; Residues: 1-355 <BEC>
A; Cross-references: UNIPROT: P21109; UNIPARC: UPI000012D4ED; GB: M74240; NID: g165438; PIDN: AAA31375.1; PID: g16
R;Lee, J.; Kuang, W.J.; Rice, G.C.; Wood, W.I.
J. Immunol. 148, 1261-1264, 1992
A; Title: Characterization of complementary DNA clones encoding the rabbit IL-8 receptor.
A; Reference number: A46483; MUID: 92148149; PMID: 1737938
A; Accession: A46483
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-355 <LEE>
A; Cross-references: UNIPARC: UPI000012D4ED; GB:M82873; NID:q165440; PIDN: AAA31376.1; PID:q165441
A; Experimental source: neutrophils
A; Note: sequence extracted from NCBI backbone (NCBIN:81526, NCBIP:81530)
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
 Query Match 29.5%; Score 551.5; DB 2; Length 355; Best Local Similarity 35.0%; Pred. No. 1.4e-40;
 Matches 121; Conservative 72; Mismatches 142; Indels 11; Gaps
          12 DNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVMGYQKKL 71
Qy
             17 DEFANATGMPPVEKDYSPCLVVTQT-LNKYVVVVIYALVFLLSLLGNSLVMLVILYSRSN 75
Db
Qy
          72 RSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSSVLILAF 131
             11:11 | 1:1::||||| :|:| |||
                                       76 RSVTDVYLLNLAMADLLFALTMPIWAVSKEKGWIFGTPLCKVVSLVKEVNFYSGILLLAC 135
Db
Qу
         132 ISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDISQGDDRY 191
             136 ISVDRYLAIVHATRTLTQKRHLV-KFICLGIWALSLILSLPFFLFRQV----FSPNNSSP 190
Db
Qy
         192 IC--DRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTTV 249
             191 VCYEDLGHNTAKWRMVLRILPHTFGFILPLLVMLFCYGFTLRTLFQAHMGQKHRAMRVIF 250
Db
         250 ILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLNPILY 309
Qу
              251 AVVLIFLLCWLPYNLVLLADTLMRTHVIQETCQRRNDIDRALDATEILGFLHSCLNPIIY 310
Db
Qy
         310 AFLGAKFKSSAQHALNSMSRG-SSLKILSKGKRGGHSSVSTESESS 354
                         1 :11 1 : 1:: : :: | | |
             11:1 1::
         311 AFIGQNFRNGFLKML--AARGLISKEFLTRHRVTSYTSSSTNVPSN 354
Db
RESULT 7
A55735
G protein-coupled receptor EBI1 - mouse
```

C; Species: Mus musculus (house mouse)

```
C;Date: 07-Jul-1995 #sequence revision 07-Jul-1995 #text change 09-Jul-2004
C:Accession: A55735
R; Schweickart, V.L.; Raport, C.J.; Godiska, R.; Byers, M.G.; Eddy Jr., R.L.; Shows, T.B.; Gray, P.W.
Genomics 23, 643-650, 1994
A; Title: Cloning of human and mouse EBI1, a lymphoid-specific G-protein-coupled receptor encoded on human c
A; Reference number: A55735; MUID: 95154835; PMID: 7851893
A; Accession: A55735
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-378 <SCH>
A; Cross-references: UNIPROT: P47774; UNIPARC: UPI00000274D1; GB: L31580; NID: q468340; PIDN: AAA74232.1; PID: q46
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor
 Query Match 29.5%; Score 550.5; DB 2; Length 378; Best Local Similarity 33.2%; Pred. No. 1.8e-40; Matches 117; Conservative 78; Mismatches 150; Indels 7
                                                             7; Gaps
          11 SDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVMGYQKK 70
Qу
             29 TDDYIGENTTVDYTLYESVCFKKDVRNFKAWFLPLMYSVICFVGLLGNGLVILTYIYFKR 88
Db
Qу
          71 LRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSSVLILA 130
             89 LKTMTDTYLLNLAVADILFLLILPFWAYSEAKSWIFGVYLCKGIFGIYKLSFFSGMLLLL 148
Db
         131 FISLDRYLAIVHAT--NSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDISQGD 188
Qу
         149 CISIDRYVAIVQAVSRHRHRARVLLISKLSCVGIWMLALFLSIPELLYSGLQK---NSGE 205
Db
         189 DRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTT 248
Qу
             Db
         206 DTLRCSLVSAQVEALITIQVAQMVFGFLVPMLAMSFCYLIIIRTLLQARNFERNKAIKVI 265
         249 VILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLNPIL 308
Qν
             1: :: :1:11 11:11 1
         266 IAVVVVFIVFQLPYNGVVLAQTVANFNITNSSCETSKQLNIAYDVTYSLASVRCCVNPFL 325
Db
Qу
         309 YAFLGAKFKSSAQHALNSMSRGSS--LKILSKGKRGGHSSVSTESESSSFHS 358
                           : | |: | : ::||| |:|:: |
             111:1 11:1
         326 YAFIGVKFRSDLFKLFKDLGCLSQERLRHWSSCRHVRNASVSMEAETTTTFS 377
Dh
·RESULT 8
interleukin-8 receptor - rat
C; Species: Rattus norvegicus (Norway rat) '
C;Date: 06-Jan-1995 #sequence revision 06-Jan-1995 #text change 26-Aug-1999
C; Accession: $42096
R; Gobl, A.E.; Wang, S.; Zhou, Y.; Oeberg, K.
submitted to the EMBL Data Library, February 1994
A; Description: Molecular cloning of the rat IL8 receptor.
A; Reference number: S42096
A; Accession: S42096
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-356 <GOB>
A; Cross-references: UNIPARC: UPI00001778DE; EMBL: X77797
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
  Query Match 29.3%; Score 547.5; DB 2; Length 356; Best Local Similarity 34.8%; Pred. No. 3.le-40;
  Matches 129; Conservative 67; Mismatches 124; Indels 51; Gaps
          12 DNYS-EEVGSGDYD-----SNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGN 58
Qу
                                    1: 11 1: 11 : 11 :: 1 : 111
             11:1 1: 111 1
           7 DNFSLEDFFSGDIDSYNFSSDPPFTLSDAAPC-PSANLDINRYAVVVIYVLVTLLSLVGN 65
Db
          59 GLVILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIY 118
Qν
              66 SLVMLVILYNRSTCSVTDVYLLNLAIADLFFALTLPVWAASKVNGWIFGSFLCKVFSFLQ 125
Db
         119 TVNLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFAD 178
Qy
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126 EITFYSSVLLLACISMDRYLAIVHATSTLIQKRHLV-KFVCITMWFLSLVLSLPIFIL-- 182

Db

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179 VSQGDISQGDDRYICDRLYPD-----SLWMVVFQFQHIMVGLILPGIVILSCYCIIISKL 233
Qν
         183 -- RTTVKANPSTVVC---YENIGNNTSKWRVVLRILPQTYGFLLPLLIMLFCYGFTLRTL 237
Db
         234 SHSKGHQKRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISI 293
Qγ
              : || :|:: ::| | |||||| : |:: :||: |:::::|
Db
         238 FKAHMGQKHRAMRVIFAVVLVFLLCWLPYNIVLFTDTLMRTKLIKETCERQNEINK---A 294
         294 TEALAFFHCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSK------GKRGGH 344
Qγ
             295 SEILGFLHSCLNPIIYAFIGQKFR----HGL-----LKIMANYGLVSKEFLAKEGRP 342
Db
         345 SSVSTESESSS 355
Qy
            1 | : | ::|
         343 SFVGSSSANTS 353
Db
RESULT 9
A53752
interleukin-8 receptor (clone 5Bla) - rabbit
C; Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C; Accession: A53752
R; Prado, G.N.; Thomas, K.M.; Suzuki, H.; LaRosa, G.J.; Wilkinson, N.; Folco, E.; Navarro, J.
J. Biol. Chem. 269, 12391-12394, 1994
A; Title: Molecular characterization of a novel rabbit interleukin-8 receptor isotype.
A; Reference number: A53752; MUID: 94230294; PMID: 8175642
A; Accession: A53752
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-358 < PRA>
A; Cross-references: UNIPROT: P35344; UNIPARC: UPI000012D4F4; GB: L24445; NID: q437661; PIDN: AAA31378.1; PID: q43
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
 Query Match 29.2%; Score 544.5; DB 2; Length 358; Best Local Similarity 34.7%; Pred. No. 5.7e-40;
 Matches 128; Conservative 70; Mismatches 132; Indels
                                                          39; Gaps
           9 YTSDNYSEEVGSGDYDS-----NKEPCFRDENVHFNRIFLPTIYFIIFLTGIV 56
Qу
             :1:111 | 11::
                              : || | |:: | : |::|| ::
Db
           4 FTWENYSYEDFFGDFSNYSYSTDLPPTLLDSAPC-RSESLETNSYVVLITYILVFLLSLL 62
          57 GNGLVILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHI 116
Qу
             Db
          63 GNSLVMLVILYSRSTCSVTDVYLLNLAIADLLFATTLPIWAASKVHGWTFGTPLCKVVSL 122
         {\tt 117} \ {\tt IYTVNLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIF} \ {\tt 176}
Qу
             123 VKEVNFYSGILLLACISVDRYLAIVHATRTMIQKRHLV-KFICLSMWGVSLILSLPILLF 181
Db
Qу
         177 ADVSQGDISQGDDRYICDRLYPD----SLWMVVFQFQHIMVGLILPGIVILSCYCIIIS 231
                 182 RNA----IFPPNSSPVC---YEDMGNSTAKWRMVLRILPQTFGFILPLLVMLFCYVFTLR 234
Db
         232 KLSHSKGHQKRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWI 291
Qγ
              | : || :|:: ::| | ||||| : |:: ||:: |::: :
         235 TLFQAHMGQKHRAMRVIFAVVLIFLLCWLPYNLVLLTDTLMRTHVIQETCERRNDIDRAL 294
Db
         292 SITEALAFFHCCLNPILYAFLGAKF----KSSAQHALNSMSRGSSLKILSKGKRGGHSS 346
Qν
               295 DATEILGFLHSCLNPIIYAFIGQKFRYGLLKILAAHGL-----ISKEFLAKESR--PSF 346
Db
         347 VSTESESSS 355
Qy
             1:: | ::|
Db
         347 VASSSGNTS 355
RESULT 10
interleukin-8 receptor type B - human
C; Species: Homo sapiens (man)
C;Date: 07-Oct-1994 #sequence_revision 12-Apr-1996 #text_change 09-Jul-2004
C; Accession: I37898; I38712; A53611; A39446
R; Ahuja, S.K.; Shetty, A.; Tiffany, H.L.; Murphy, P.M.
```

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J. Biol. Chem. 269, 26381-26389, 1994
A; Title: Comparison of the genomic organization and promoter function for human interleukin-8 receptors A a
A; Reference number: I37898; MUID: 95014476; PMID: 7929358
A:Accession: I37898
A; Status: preliminary .
A; Molecule type: DNA
A; Residues: 1-360 < RES>
A;Cross-references: UNIPROT:P25025; UNIPARC:UPI000004358A; EMBL:U11869; NID:g511801; PIDN:AAB60656.1; PID:g
A; Accession: I38712
A; Status: preliminary
A; Molecule type: mRNA
A: Residues: 1-15 < RE2>
A; Cross-references: UNIPARC: UPI000000053D; EMBL: U11872; NID: g511808; PIDN: AAA64380.1; PID: g511809; EMBL: U11
R; Sprenger, H.; Lloyd, A.R.; Lautens, L.L.; Bonner, T.I.; Kelvin, D.J.
J. Biol. Chem. 269, 11065-11072, 1994
A; Title: Structure, genomic organization, and expression of the human interleukin-8 receptor B gene.
A; Reference number: A53611; MUID: 94209273; PMID: 7512557
A:Accession: A53611
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 6-360 <SPR>
A;Cross-references: UNIPARC:UPI00000746D6; GB:M99412; GB:L19593
R; Murphy, P.M.; Tiffany, H.L.
Science 253, 1280-1283, 1991
A; Title: Cloning of complementary DNA encoding a functional human interleukin-8 receptor.
A; Reference number: A39446; MUID:91368200; PMID:1891716
A:Accession: A39446
A; Status: preliminary; nucleic acid sequence not shown
A; Molecule type: mRNA
A: Residues: 6-360 <MUR>
A; Cross-references: UNIPARC: UPI00000746D6; GB:M73969
C; Comment: This receptor, unlike IL8RA, binds several peptides besides interleukin-8, including GRO, NAP-2,
C:Genetics:
A; Gene: GDB: IL8RB; IL8RA
A; Cross-references: GDB:127868; OMIM:146928
A; Map position: 2q35-2q35
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
                        29.2%; Score 544.5; DB 2; Length 360;
  Best Local Similarity 33.8%; Pred. No. 5.8e-40;
 Matches 127; Conservative 72; Mismatches 124; Indels
                                                           53; Gaps
Qy
          11 SDNY----SEEVGSGDYDSNKEPCFRD-----ENVHFNRIFLPTIYFIIFLTGIVGNG 59
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                                             1:: 1: 1: 14 ::11 ::11
Db
           8 SDSFEDFWKGEDLSNYSYSSTLPPFLLDAAPCEPESLEINKYFVVIIYALVFLLSLIGNS 67
Qy
          60 LVILVMGYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYT 119
             11:11: 1: 11:11 | 1:1::11111 : 11 | 11 | ::
          68 LVMLVILYSRVGRSVTDVYLLNLALADLLFALTLPIWAASKVNGWIFGTFLCKVVSLLKE 127
Db
         120 \ \ VNLYSSVLILAFISLDRYLAIVHATN \dot{S} QRPRKLLAEKAVYVGVWIPALLLTIPDFIF-AD \ 178
Qy
             128 VNFYSGILLLACISVDRYLAIVHATRTLTQKRYLV-KFICLSIWGLSLLLALPVLLFRRT 186
Db
Qy
         179 VSQGDISQGDDRYICDRLYPD----SLWMVVFQFQHIMVGLILPGIVILSCYCIIISKL 233
                             11 : [:::: []:::::[]::::
         187 VYSSNVSPA-----CYEDMGNNTANWRMLLRILPQSFGFIVPLLIMLFCYGFTLRTL 238
Db
         234 SHSKGHQKRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISI 293
Qy
                  Dh
         239 FKAHMGQKHRAMRVIFAVVLIFLLCWLPYNLVLLADTLMRTQVIQETCERRNHIDRALDA 298
Qy
         294 TEALAFFHCCLNPILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTES-- 351
             Db
         299 TEILGILHSCLNPLIYAFIGQKFR----HGL-----LKILAI-----HGLISKDSLP 341
Qy
         352 -----ESSSFHSS 359
                     111 1:1
Db
         342 KDSRPSFVGSSSGHTS 357
RESULT 11
lymphocyte-specific.G protein-coupled receptor EBI1 - human
N; Alternate names: Burkitt's lymphoma receptor 2; Epstein-Barr virus induced protein 1
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C: Species: Homo sapiens (man)
C;Date: 07-Jul-1995 #sequence_revision 07-Jul-1995 #text_change 09-Jul-2004
C; Accession: B55735; S52443
R;Schweickart, V.L.; Raport, C.J.; Godiska, R.; Byers, M.G.; Eddy Jr., R.L.; Shows, T.B.; Gray, P.W.
Genomics 23, 643-650, 1994
A; Title: Cloning of human and mouse EBI1, a lymphoid-specific G-protein-coupled receptor encoded on human c
A; Reference number: A55735; MUID: 95154835; PMID: 7851893
A; Accession: B55735
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-378 <SCH>
A; Cross-references: UNIPROT: P32248; UNIPARC: UPI0000001C2F; GB: L31581; NID: q468319; PIDN: AAA74231.1; PID: q46
R; Burgstahler, R.; Kempkes, B.; Staeube, K.; Lipp, M.
submitted to the EMBL Data Library, February 1995
A; Description: The expression of the chemokine receptor BLR2/EBI1 is specifically transactivated by Epstein
A; Reference number: S52443
A; Accession: S52443
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 21-378 <BUR>
A; Cross-references: UNIPARC: UPI000014DEAD; EMBL: X84702
C; Genetics:
A; Gene: GDB: CMKBR7; EBI1; BLR2; CCR7
A; Cross-references: GDB:342065; OMIM:600242
A: Map position: 17q12-17q21.2
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor
  Query Match
                        28.8%; Score 537.5; DB 2; Length 378;
  Best Local Similarity 32.1%; Pred. No. 2.5e-39;
  Matches 113; Conservative 79; Mismatches 153; Indels
Qу
          11 SDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVMGYQKK 70
             29 TDDYIGDNTTVDYTLFESLCSKKDVRNFKAWFLPIMYSIICFVGLLGNGLVVLTYIYFKR 88
Db
          71\ LRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSSVLILA\ 130
Qу
             Db
          89 LKTMTDTYLLNLAVADILFLLTLPFWAYSAAKSWVFGVHFCKLIFAIYKMSFFSGMLLLL 148
Qу
         131 FISLDRYLAIVÄATNS--QRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDISQGD 188
              149 CISIDRYVAIVQAVSAHRHRARVLLISKLSCVGIWILATVLSIPELLYSDLQR---SSSE 205
Db
Qу
         189 DRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKALKTT 248
                           : | :::|::|::||:||
                 1 :
         206 QAMRCSLITEHVEAFITIQVAQMVIGFLVPLLAMSFCYLVIIRTLLQARNFERNKAIKVI 265
Db
         249 VILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLNPIL 308
Oν
         266 IAVVVVFIVFQLPYNGVVLAQTVANFNITSSTCELSKQLNIAYDVTYSLACVRCCVNPFL 325
Db
Qу
         309 YAFLGAKFKSSAQHALNSMS--RGSSLKILSKGKRGGHSSVSTESESSSFHS 358
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                                                 11:1 1:1:::
         326 YAFIGVKFRNDLFKLFKDLGCLSQEQLRQWSSCRHIRRSSMSVEAETTTTFS 377
RESULT 12
JC5068
G protein-coupled receptor CKR-L3 - human
C; Species: Homo sapiens (man)
C;Date: 31-Jan-1997 #sequence_revision 31-Jan-1997 #text_change 21-Jul-2000
C; Accession: JC5068
R; Zaballos, A.; Varona, R.; Gutierrez, J.; Lind, P.; Marquez, G.
Biochem. Biophys. Res. Commun. 227, 846-853, 1996
A; Title: Molecular cloning and RNA expression of two new human chemokine receptor-like genes.
A; Reference number: JC5067; MUID: 97040707; PMID: 8886020
A; Accession: JC5068
A; Molecule type: DNA
A; Residues: 1-369 <ZAB>
A; Cross-references: UNIPARC: UPI0000043586; EMBL: Z79784; NID: q1668737; PIDN: CAB02144.1; PID: q1668738
C; Comment: This protein belongs to the family of alpha chemokine receptors.
C:Genetics:
A; Gene: GDB: CMKBR6; STRL22; GPR29; CCR6; CKR-L3; GPR-CY4
A; Cross-references: GDB:5370639; OMIM:601835
A; Map position: 6q27-6q27
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C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; transmembrane protein
F;42-68/Domain: transmembrane #status predicted <TM1>
F;79-99/Domain: transmembrane #status predicted <TM2>
F;115-136/Domain: transmembrane #status predicted <TM3>
F;160-180/Domain: transmembrane #status predicted <TM4>
F;212-233/Domain: transmembrane #status predicted <TM5>
F;250-271/Domain: transmembrane #status predicted <TM6>
F;292-315/Domain: transmembrane #status predicted <TM7>
  Query Match
                         28.7%; Score 535; DB 2; Length 369;
  Best Local Similarity 33.9%; Pred. No. 4e-39;
  Matches 124; Conservative
                              72; Mismatches 136; Indels
          10 TSDNYSEEVGSGDY--DSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVMGY 67
Qy
             :1::1 | : | ||
                                 1 | |:1:1:| | :| : |::|| ||::
           9 SSEDYFVSVNTSYYSVDSEMLLCSLQEVRQFSRLFVPIAYSLICVFGLLGNILVVITFAF 68
          68 QKKLRSMTDKYRLHLSVADLLFVITLPFWAVD-AMADWYFGKFLCKAVHIIYTVNLYSSV 126
Qy
              11 11111 | 1::::11:11:11:1111 | ... | ... | ...
Db
          69 YKKARSMTDVYLLNMAIADILFVLTLPFWAVSHATGAWVFSNATCKLLKGIYAINFNCGM 128
         127 LILAFISLDRYLAIVHATNS--QRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDI 184
Ov
             Db
         129 LLLTCISMDRYIAIVQATKSFRLRSRTLPRSKIICLVVWGLSVIISSSTFVF---NQKYN 185
         185 SQGDDRYICDRLY----PDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQ 240
Qy
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C;Date: 16-Nov-1995 #sequence_revision 08-Feb-1996 #text_change 09-Jul-2004
C; Accession: JC4304
R; Raport, C.J.; Schweickart, V.L.; Eddy Jr., R.L.; Shows, T.B.; Gray, P.W.
Gene 163, 295-299, 1995
A; Title: The orphan G-protein-coupled receptor-encoding gene V28 is closely related to genes for chemokine
A; Reference number: JC4304; MUID: 96011651; PMID: 7590284
A: Accession: JC4304
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A; Experimental source: peripheral blood mononuclear cell
C; Comment: This protein is a cell-surface receptor which recognizes extracellular signals and transduces th
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C; Genetics:
A; Gene: v28
A; Map position: 3pter-p21
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C; Accession: JC4587
R; Hoogewerf, A.J.; Black, D.; Proudfoot, A.E.I.; Wells, T.N.C.; Power, C.A.
Biochem. Biophys. Res. Commun. 218, 337-343, 1996
A; Title: Molecular cloning of murine CC CKR-4 and high affinity binding of chemokines to murine and human C
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C; Superfamily: vertebrate rhodopsin
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C; Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 08-Oct-1999
C; Accession: S56162
R; Barella, L.; Loetscher, M.; Tobler, A.; Baggiolini, M.; Moser, B. Biochem. J. 309, 773-779, 1995
A; Title: Sequence variation of a novel heptahelical leucocyte receptor through alternative transcript forma
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<u>start</u>

SCORE Search Results Details for Application 10785230 and Search Result 20070206 074028 us-10-785-230-3.rai.

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This page gives you Search Results detail for the Application 10785230 and Search Result 20070206_074028_us-10-785-230-3.rai.

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GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

List

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(without alignments)

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Total number of hits satisfying chosen parameters:

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Listing first 45 summaries

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SUMMARIES

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2	1678.5	89.9	352	1	US-08-076-093A-4	Sequence 4, Appli
3	1678.5	89.9	352	1	US-08-701-265-4	Sequence 4, Appli
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ALIGNMENTS

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RESULT 1
US-08-202-056-3
  Sequence 3, Application US/08202056
 Patent No. 5440021
  GENERAL INFORMATION:
     APPLICANT: Chuntharapai, Anan
     APPLICANT: Hebert, Caroline
     APPLICANT: Kim, Kyung Jin
     APPLICANT: Lee, James
    TITLE OF INVENTION: Antibodies to Human IL-8 Type B Receptor NUMBER OF SEQUENCES: \$
     CORRESPONDENCE ADDRESS:
      ADDRESSEE: Genentech, Inc.
       STREET: 460 Point San Bruno Blvd
      CITY: South San Francisco
      STATE: California
      COUNTRY: USA
      ZIP: 94080
     COMPUTER READABLE FORM:
      MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
       COMPUTER: IBM PC compatible
       OPERATING SYSTEM: PC-DOS/MS-DOS
       SOFTWARE: patin (Genentech)
     CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/08/202,056
      FILING DATE: 25-FEB-1994
      CLASSIFICATION: 436
     PRIOR APPLICATION DATA:
       APPLICATION NUMBER: 07/677211
       FILING DATE: 29-MAR-1991
     ATTORNEY/AGENT INFORMATION:
      NAME: Love, Richard B.
       REGISTRATION NUMBER: 34,659
       REFERENCE/DOCKET NUMBER: 706P3
     TELECOMMUNICATION INFORMATION:
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TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 3:
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     TYPE: amino acid
     TOPOLOGY: linear
US-08-202-056-3
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 Best Local Similarity
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; Patent No. 5543503
  GENERAL INFORMATION:
    APPLICANT: Chuntharapai, Anan
    APPLICANT: Lee, James
    APPLICANT: Hebert, Caroline
    APPLICANT:
              Jin Kim, K.
    TITLE OF INVENTION: Antibodies to Human PF4A Receptors NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
     STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
     COMPUTER: IBM PC compatible
     OPERATING SYSTEM: PC-DOS/MS-DOS
     SOFTWARE: WinPatin (Genentech)
    CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/08/076,093A
     FILING DATE: 11-Jun-1993
     CLASSIFICATION: 530.
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
     FILING DATE: 19-DEC-1991
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/677211
     FILING DATE: 29-MAR-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B
     REGISTRATION NUMBER: 34,659
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REFERENCE/DOCKET NUMBER: 706P2

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TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
      TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
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     TYPE: Amino Acid
     TOPOLOGY: Linear
US-08-076-093A-4
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 Best Local Similarity
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 Patent No. 5776457
  GENERAL INFORMATION:
    APPLICANT: Chuntharapai, Anan
    APPLICANT: Lee, James
    APPLICANT: Hebert, Caroline
    APPLICANT: Jin Kim, K.
    TITLE OF INVENTION: Antibodies to Human PF4A Receptors
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
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      FILING DATE: 11-Jun-1993
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ATTORNEY/AGENT INFORMATION:

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. NAME: Love, Richard B
      REGISTRATION NUMBER: 34,659
      REFERENCE/DOCKET NUMBER: 706P2
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
      TELEFAX: 415/952-9881
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    SEQUENCE CHARACTERISTICS:
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     TYPE: Amino Acid
     TOPOLOGY: Linear
US-08-701-265-4
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RESULT 4
US-08-284-586-4
; Sequence 4, Application US/08284586
; Patent No. 5840856
  GENERAL INFORMATION:
    APPLICANT: Chuntharapai, Anan
    APPLICANT: Lee, James
    APPLICANT: Hebert, Caroline
    APPLICANT: Jin Kim, K.
    TITLE OF INVENTION: Antibodies to Human PF4A Receptors
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
     COMPUTER: IBM PC compatible
     OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: WinPatin (Genentech)
    CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/08/284,586
      FILING DATE:
     CLASSIFICATION: 424
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: US/08/076,093A
      FILING DATE: 11-Jun-1993
     APPLICATION NUMBER: 07/810782
      FILING DATE: 19-DEC-1991
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PRIOR APPLICATION DATA:

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APPLICATION NUMBER: 07/677211
     FILING DATE: 29-MAR-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B
     REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: 706P2
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
     LENGTH: 352 amino acids
     TYPE: Amino Acid
     TOPOLOGY: Linear
US-08-284-586-4
                      89.9%; Score 1678.5; DB 1; Length 352; 90.1%; Pred. No. 1.1e-132;
 Query Match
 Best Local Similarity
 Matches 319; Conservative 19; Mismatches
                                                        5; Gaps
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RESULT 5
US-08-805-478-4
; Sequence 4, Application US/08805478
; Patent No. 5874543
  GENERAL INFORMATION:
    APPLICANT: Chuntharapai, Anan
    APPLICANT: Lee, James
    APPLICANT: Hebert, Caroline
    APPLICANT: Jin Kim, K.
    TITLE OF INVENTION: ANTIBODIES TO PF4A RECEPTOR
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
     COMPUTER: IBM PC compatible
     OPERATING SYSTEM: PC-DOS/MS-DOS
     SOFTWARE: WinPatin (Genentech)
    CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/08/805,478
      FILING DATE: 25-Feb-1997
     CLASSIFICATION: 530
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/284586
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FILING DATE: 10-AUG-1994

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PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 08/076093
      FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 07/810782
      FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
      NAME: Love, Richard B.
      REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: P0706P2P1C1
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 352 amino acids
      TYPE: Amino Acid
     TOPOLOGY: Linear
US-08-805-478-4
 Query Match
                      89.9%; Score 1678.5; DB 1; Length 352;
                      90.1%; Pred. No. 1.1e-132;
 Best Local Similarity
 Matches 319; Conservative
                           19; Mismatches
                                          11: Indels
                                                        5; Gaps
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RESULT 6
US-08-802-627A-4
; Sequence 4, Application US/08802627A
 Patent No. 5892017
  GENERAL INFORMATION:
    APPLICANT: Lee, James
APPLICANT: Wood, William I.
    TITLE OF INVENTION: NUCLEIC ACID ENCODING PF4A RECEPTOR
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
     STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER: IBM PC compatible
     OPERATING SYSTEM: PC-DOS/MS-DOS
     SOFTWARE: WinPatin (Genentech)
    CURRENT APPLICATION DATA:
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     FILING DATE: 19-Feb-1997
     CLASSIFICATION: 514
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      FILING DATE: 10-AUG-1994
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     APPLICATION NUMBER: 08/076093
     FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
      FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
      REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: P0706P2P1D2
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 352 amino acids
      TYPE: Amino Acid
     TOPOLOGY: Linear
US-08-802-627A-4
                      89.9%; Score 1678.5; DB 1; 90.1%; Pred. No. 1.1e-132;
 Query Match
                                                Length 352;
 Best Local Similarity
 Matches 319; Conservative 19; Mismatches
                                               Indels
                                                           Gaps
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            Db
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RESULT 7
US-08-801-238-4
; Sequence 4, Application US/08801238
 Patent No. 5919896
  GENERAL INFORMATION:
    APPLICANT: Lee, James
    APPLICANT: Wood, William I.
    TITLE OF INVENTION: PF4A RECEPTOR
    NUMBER OF SEQUENCES: 6
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
      STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: WinPatin (Genentech)
    CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/08/801.238
      FILING DATE: 19-Feb-1997
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CLASSIFICATION: 530
    PRIOR APPLICATION DATA:
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      FILING DATE: 10-AUG-1994
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/076093
      FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
     FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
      REGISTRATION NUMBER: 34,659
      REFERENCE/DOCKET NUMBER: P0706P2P1D1
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO:
    SEQUENCE CHARACTERISTICS:
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     TOPOLOGY: Linear
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 Best Local Similarity 90.1%; Pred. No. 1.1e-132;
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 Matches 319; Conservative
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RESULT 8
US-08-801-228-4
; Sequence 4, Application US/08801228
 Patent No. 5922541
  GENERAL INFORMATION:
    APPLICANT: Lee, James
    APPLICANT: Wood, William I.
    TITLE OF INVENTION: METHODS FOR DETECTION AND AMPLIFICATION OF
    TITLE OF INVENTION: PF4A RECEPTOR NUCLEIC ACID NUMBER OF SEQUENCES: \mathbf{6}
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
      STREET: 460 Point San Bruno Blvd
     CITY: South San Francisco
      STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: WinPatin (Genentech)
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     APPLICATION NUMBER: 08/284586
      FILING DATE: 10-AUG-1994
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/076093
      FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
      FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
      REGISTRATION NUMBER: 34,659
      REFERENCE/DOCKET NUMBER: P0706P2P1D3
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
      TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 352 amino acids
      TYPE: Amino Acid
      TOPOLOGY: Linear
US-08-801-228-4
 Query Match
                      89.9%; Score 1678.5; DB 1; Length 352;
 Best Local Similarity
                     90.1%; Pred. No. 1.1e-132;
 Matches 319; Conservative
                           19; Mismatches
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                                               Indels
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RESULT 9
US-09-104-296-4
; Sequence 4, Application US/09104296
 Patent No. 6087475
  GENERAL INFORMATION:
    APPLICANT: Lee, James
APPLICANT: Wood, William I.
    TITLE OF INVENTION: PF4A Receptors
    NUMBER OF SEQUENCES:
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Genentech, Inc.
      STREET: 1 DNA Way
      CITY: South San Francisco
      STATE: California
      COUNTRY: USA
      ZIP: 94080
    COMPUTER READABLE FORM:
      MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
      COMPUTER: IBM PC compatible
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OPERATING SYSTEM: PC-DOS/MS-DOS
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    CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/09/104.296
     FILING DATE: 24-June-1998
     CLASSIFICATION:
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/701265
     FILING DATE: 22-AUG-1996
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/664228
     FILING DATE: 06-JUN-1996
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: .08/076093
     FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
     FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
     REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: P0706P2C2
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
     LENGTH: 352 amino acids
     TYPE: Amino Acid
     TOPOLOGY: Linear
US-09-104-296-4
 Query Match
                      89.9%; Score 1678.5; DB 2; Length 352;
 Best Local Similarity 90.1%; Pred. No. 1.1e-132;
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RESULT 10
US-09-517-605-4
; Sequence 4, Application US/09517605
; Patent No. 6391567
: GENERAL INFORMATION:
  APPLICANT: Littman, Dan R.
  APPLICANT: Kwon, Douglas S.
  APPLICANT: van Kooyk, Yvette
  APPLICANT: Geijtenbeck, Tneo
  TITLE OF INVENTION: METHODS OF USING A FACILITATOR OF RETROVIRAL ENTRY INTO
  TITLE OF INVENTION: CELLS
  FILE REFERENCE: 1049-1-017
  CURRENT APPLICATION NUMBER: US/09/517,605
  CURRENT FILING DATE: 2000-03-02
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   TYPE: PRT
   ORGANISM: Homo sapiens
US-09-517-605-4
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RESULT 11
US-09-647-501-2
; Sequence 2, Application US/09647501
; Patent No. 6863887
 GENERAL INFORMATION:
  APPLICANT: No. 6863887thwest Biotherapeutics, Inc.
  APPLICANT: Murphy, Gerald P.
  APPLICANT: Boynton, Alton L. APPLICANT: Sehgal, Anil
  TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC APPLICATIONS BASED ON THE
  TITLE OF INVENTION: ROLE OF THE CXCR-4 GENE IN TUMORIGENESIS
  FILE REFERENCE: 20093-000600PC
  CURRENT APPLICATION NUMBER: US/09/647,501
  CURRENT FILING DATE: 2000-09-24
  PRIOR APPLICATION NUMBER: 60/079,916
  PRIOR FILING DATE: 1998-03-30
  PRIOR APPLICATION NUMBER: 60/104,656
  PRIOR FILING DATE: 1998-10-16
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; Sequence 485, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
  APPLICANT: Lehmann-Bruinsma, Karin
  APPLICANT: Liaw, Chen W.
  APPLICANT: Lin, I-Lin
  TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
  TITLE OF INVENTION: Protein-Coupled Receptors
  FILE REFERENCE: AREN-207
  CURRENT APPLICATION NUMBER: US/09/826,509
  CURRENT FILING DATE: 2001-04-05
  PRIOR APPLICATION NUMBER: 60/195,747
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; Sequence 6, Application US/08450393A
; Patent No. 5707815
  GENERAL INFORMATION:
    APPLICANT: Charo, Israel
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APPLICANT: Coughlin, Shaun
  TITLE OF INVENTION: MAMMALIAN MONOCYTE CHEMOATTRACTANT TITLE OF INVENTION: PROTEIN RECEPTORS
  NUMBER OF SEQUENCES: 14
  CORRESPONDENCE ADDRESS:
    ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
    STREET: 5 Palo Alto Square
   CITY: Palo Alto
STATE: California
    COUNTRY: USA
    ZIP: 94306-2155
  COMPUTER READABLE FORM:
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    COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: PatentIn Release #1.0, Version #1.25
  CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/08/450,393A
    FILING DATE: May 25, 1995
    CLASSIFICATION: 424
  ATTORNEY/AGENT INFORMATION:
    NAME: Cserr, Luann
    REGISTRATION NUMBER: 31,822
    REFERENCE/DOCKET NUMBER: UCAL-237/02US
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: 415-843-5165
    TELEFAX: 415-8857-0663
    TELEX: 380816CooleyPA
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  SEQUENCE CHARACTERISTICS:
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    TYPE: amino acid
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start | next page

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10785230 and Search Result 20070206_074033_us-10-785-230-3.rapbm.

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start

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GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

List

February 6, 2007, 14:24:16; Search time 137 Seconds

(without alignments)

1215.298 Million cell updates/sec

Title: US-10-785-230-3

Perfect score: 1867

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Listing first 45 summaries

Published Applications AA Main:* Database :

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ALIGNMENTS

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; Sequence 3, Application US/10785230
 Publication No. US20040209837A1
 GENERAL INFORMATION:
 APPLICANT: KISHIMOTO, Tadamitsu
  APPLICANT: NAGASAWA, Takashi
  APPLICANT: TACHIBANA, Kazunobu
  APPLICANT: CHUGAI SEIYAKU KABUSIKI KAISHA
  TITLE OF INVENTION: Vascularization Inhibitors
  FILE REFERENCE: 46124-5042-US
  CURRENT APPLICATION NUMBER: US/10/785,230
  CURRENT FILING DATE: 2004-02-25
  PRIOR APPLICATION NUMBER: PCT/JP99/01448
  PRIOR FILING DATE: 1999-03-23
  PRIOR APPLICATION NUMBER: JP10/95448
  PRIOR FILING DATE: 1998-03-24
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; Sequence 918, Application US/10330773; Publication No. US20060040262A1
; GENERAL INFORMATION:
  APPLICANT: David W. Morris
  APPLICANT: Marc Malandro
  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
  FILE REFERENCE: 529452001300
  CURRENT APPLICATION NUMBER: US/10/330,773.
  CURRENT FILING DATE: 2002-12-27
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: GENERAL INFORMATION:
  APPLICANT: Penn, Marc
  TITLE OF INVENTION: GENETICALLY ENGINEERED FOR THERAPEUTIC APPLICATIONS
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; Patent No. US20020107195A1
 GENERAL INFORMATION:
  APPLICANT: Shalley, Gupta K.
  TITLE OF INVENTION: Method for Inducing Chemotaxis in Endothelial Cells by
  TITLE OF INVENTION: Administering Stromal Cell Derived Factor-1(
  FILE REFERENCE: P50676C1
  CURRENT APPLICATION NUMBER: US/09/953.692
  CURRENT FILING DATE: 2001-09-17
  PRIOR APPLICATION NUMBER: 09/358,624
  PRIOR FILING DATE: 1999-07-21
  PRIOR APPLICATION NUMBER: 60/093,596
  PRIOR FILING DATE: 1998-07-21
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; Patent No. US20020107196A1
; GENERAL INFORMATION:
  APPLICANT: Shalley, Gupta K.
  TITLE OF INVENTION: Method for Inducing Chemotaxis in Endothelial Cells by
  TITLE OF INVENTION: Administering Stromal Cell Derived Factor-1(
 FILE REFERENCE: P50676D1
  CURRENT APPLICATION NUMBER: US/09/953,717
  CURRENT FILING DATE: 2001-09-17
  PRIOR APPLICATION NUMBER: 09/358,624
  PRIOR FILING DATE: 1999-07-21
  PRIOR APPLICATION NUMBER: 60/093.596
  PRIOR FILING DATE: 1998-07-21
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        246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Qу
           Db
        239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
        306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qv
           299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 6
US-09-104-063-4
; Sequence 4, Application US/09104063
; Patent No. US20020168356A1
  GENERAL INFORMATION:
   APPLICANT: Lee, James
   APPLICANT: Wood, WIlliam I.
   TITLE OF INVENTION: PF4A Receptors
    NUMBER OF SEQUENCES:
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Genentech, Inc.
     STREET: 1 DNA Way
```

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CITY: South San Francisco
     STATE: California
     COUNTRY: USA
     ZIP: 94080
    COMPUTER READABLE FORM:
     MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
     COMPUTER: IBM PC compatible
     OPERATING SYSTEM: PC-DOS/MS-DOS
     SOFTWARE: WinPatin (Genentech)
    CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/09/104,063
     FILING DATE: 24-June-1998
     CLASSIFICATION:
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/701265
     FILING DATE: 22-AUG-1996
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/664228
     FILING DATE: 06-JUN-1996
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 08/076093
     FILING DATE: 11-JUN-1993
    PRIOR APPLICATION DATA:
     APPLICATION NUMBER: 07/810782
     FILING DATE: 19-DEC-1991
    ATTORNEY/AGENT INFORMATION:
     NAME: Love, Richard B.
     REGISTRATION NUMBER: 34,659
     REFERENCE/DOCKET NUMBER: P0706P2C2
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: 415/225-5530
     TELEFAX: 415/952-9881
     TELEX: 910/371-7168
  INFORMATION FOR SEQ ID NO: 4:
    SEQUENCE CHARACTERISTICS:
     LENGTH: 352 amino acids
     TYPE: Amino Acid
     TOPOLOGY: Linear
US-09-104-063-4
 Query Match
                      89.9%; Score 1678.5; DB 3;
                                               Length 352;
 Best Local Similarity
                      90.1%; Pred. No. 1.7e-143;
 Matches 319; Conservative
                          19; Mismatches
                                         11;
                                              Indels
                                                       5; Gaps
          6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
Qy
            Db
          4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
         66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qу
            64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
Db
Qу
        126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
            124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV----S 178
Db
        186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Οv
            Db
        179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
        246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Qу
            239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
Db
        306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qу
            Db
        299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 7
US-09-813-651B-85
; Sequence 85, Application US/09813651B
; Publication No. US20030018438A1
; GENERAL INFORMATION:
 APPLICANT: Nestor, John
  APPLICANT: Wilson, Carol
```

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APPLICANT: Tan Hehir, Christina
  APPLICANT: Kates, Steven
  TITLE OF INVENTION: Binding Compounds and Methods for Identifying Binding Compounds
  FILE REFERENCE: CNS-007
  CURRENT APPLICATION NUMBER: US/09/813,651B
  CURRENT FILING DATE: 2001-03-20
  PRIOR APPLICATION NUMBER: US 60/190,946
  PRIOR FILING DATE: 2000-03-21
  PRIOR APPLICATION NUMBER: US 60/190,996
  PRIOR FILING DATE: 2000-03-21
  PRIOR APPLICATION NUMBER: US 60/191,299
  PRIOR FILING DATE: 2000-03-21
  NUMBER OF SEQ ID NOS: 85
  SOFTWARE: PatentIn version 3.0
: SEO ID NO 85
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-09-813-651B-85
 Query Match 89.9%; Score 1678.5; DB 3; Length 352; Best Local Similarity 90.1%; Pred. No. 1.7e-143;
 Matches 319; Conservative 19; Mismatches 11; Indels
                                                          5; Gaps
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          6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
            Db
          4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
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         64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
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Qу
            Db
        124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV----S 178
        186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Qу
            179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
Db
Qy
        246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
            Db
        239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
        306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Οv
            Db
        299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 8
US-10-151-274-4
; Sequence 4, Application US/10151274
; Publication No. US20030064071A1
; GENERAL INFORMATION:
 APPLICANT: Littman, Dan R.
  APPLICANT: Kwon, Douglas S.
  APPLICANT: van Kooyk, Yvette
APPLICANT: Geijtenbeck, Tneo
  TITLE OF INVENTION: METHODS OF USING A FACILITATOR OF RETROVIRAL ENTRY
  TITLE OF INVENTION: INTO
  TITLE OF INVENTION: CELLS
  FILE REFERENCE: 1049-1-017
  CURRENT APPLICATION NUMBER: US/10/151,274
  CURRENT FILING DATE: 2002-05-20
  PRIOR APPLICATION NUMBER: US/09/517,605
  PRIOR FILING DATE: 2000-03-02
  NUMBER OF SEQ ID NOS: 17
  SOFTWARE: PatentIn Ver. 2.0
; SEO ID NO 4
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-151-274-4
                       89.9%; Score 1678.5; DB 4; Length 352;
 Query Match
 Best Local Similarity 90.1%; Pred. No. 1.7e-143;
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Matches 319; Conservative
                         19:
                                       11: Indels
                                                             1:
                             Mismatches
                                                      Gaps
         6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
Oν
           4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
Db
         66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qу
           64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
Db
        126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
Qy
           Db
        124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV--
        186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Qу
           Db
        179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
        246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Qγ
           239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
Db
        306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Ον
           Db
        299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 9
US-10-225-567A-76
; Sequence 76, Application US/10225567A
 Publication No. US20030113798A1
; GENERAL INFORMATION:
  APPLICANT: LifeSpan Biosciences
  APPLICANT: Brown, Joseph P.
  APPLICANT: Burmer, Glenna C.
  APPLICANT: Roush, Christine L.
  TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS (GPCRS)
  FILE REFERENCE: 1920-4-4
  CURRENT APPLICATION NUMBER: US/10/225,567A
  CURRENT FILING DATE: 2001-12-19
  PRIOR APPLICATION NUMBER: 60/257,144
  PRIOR FILING DATE: 2000-12-19
  NUMBER OF SEQ ID NOS: 2292
  SOFTWARE: PatentIn version 3.1
 SEQ ID NO 76
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-225-567A-76
 Query Match 89.9%; Score 1678.5; DB 4; Length 352; Best Local Similarity 90.1%; Pred. No. 1.7e-143;
 Matches 319; Conservative 19; Mismatches 11; Indels
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                                                             1:
         6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
Qy
           Db
         4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
        66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
Qy
           Db
         64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
Qy
        126 VLILAFISLDRYLAIVHATNSORPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSOGDIS 185
           124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV----S 178
Db
Qу
        186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
            Db
        179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
        246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Qν
           Dh
        239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
Qy
        306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
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RESULT 10
US-10-245-850-1
; Sequence 1, Application US/10245850
; Publication No. US20030124628A1
; GENERAL INFORMATION:
  APPLICANT: Burns, Jennifer M.
  APPLICANT: Miao, Zhenhua
  APPLICANT: Wei, Zheng
  APPLICANT: Howard, Maureen C.
  APPLICANT: Premack, Brett A.
  APPLICANT: Schall, Thomas J.
  APPLICANT: ChemoCentryx, Inc.
  TITLE OF INVENTION: Compositions and Methods for Detecting and Treating
  TITLE OF INVENTION: Diseases and Conditions Related to Chemokine Receptors
  FILE REFERENCE: 019934-003310US
  CURRENT APPLICATION NUMBER: US/10/245,850
  CURRENT FILING DATE: 2002-09-16
  PRIOR APPLICATION NUMBER: US 60/338,100
  PRIOR FILING DATE: 2001-11-30
  NUMBER OF SEQ ID NOS: 3
  SOFTWARE: PatentIn Ver. 2.1
 SEO ID NO 1
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
   OTHER INFORMATION: CXCR4 chemokine receptor
US-10-245-850-1
 Query Match 89.9%; Score 1678.5; DB 4; Length 352; Best Local Similarity 90.1%; Pred. No. 1.7e-143;
                          19; Mismatches 11;
 Matches 319; Conservative
                                                Indels
          6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
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            Db
          4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
Qу
         66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
            Db
         64 GYOKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
        126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
Οv
            Db
        124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV----S 178
        186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Qy
            Db
        179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
Qν
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            239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
Db
        306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
Qν
            Db
        299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 11
US-10-251-703-38
; Sequence 38, Application US/10251703
; Publication No. US20030148449A1
; GENERAL INFORMATION:
 APPLICANT: Kuliopulos, Athan
  APPLICANT: Covic, Lidija
  TITLE OF INVENTION: G Protein Coupled Receptor Agonists and Antagonists and
  TITLE OF INVENTION: Methods of Activating and Inhibiting G Protein Coupled
  TITLE OF INVENTION: Receptors Using the Same
  FILE REFERENCE: NEMC-215 CIP
  CURRENT APPLICATION NUMBER: US/10/251,703
  CURRENT FILING DATE: 2002-09-20
  PRIOR APPLICATION NUMBER: 09/841,091
  PRIOR FILING DATE: 2001-04-23
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PRIOR APPLICATION NUMBER: 60/198,993
  PRIOR FILING DATE: 2000-04-21
  NUMBER OF SEQ ID NOS: 41
  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Artificial Sequence
   FEATURE:
   OTHER INFORMATION: Description of Artificial Sequence: Pepducin
   OTHER INFORMATION: Peptide Sequence
US-10-251-703-38
 Query Match
                      89.9%; Score 1678.5; DB 4;
                                                Length 352;
 Best Local Similarity
                      90.1%; Pred. No. 1.7e-143;
                          19; Mismatches
 Matches 319; Conservative
                                          11;
                                               Indels
          6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
Qу
            Db
          4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
Qу
         66 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAMADWYFGKFLCKAVHIIYTVNLYSS 125
            Db
         64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
Οv
        126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
            Db
        124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV-----S 178
        186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Qу
             Db
        179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
        246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Qy
            Db
        239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
Oν
        306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
            Db
        299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 12
US-10-021-660-123
; Sequence 123, Application US/10021660
; Publication No. US20030152926A1
; GENERAL INFORMATION:
  APPLICANT: Murray, Richard
  APPLICANT: Glynne, Richard
  APPLICANT: Watson, Susan R.
  APPLICANT: EOS Biotechnology, Inc.
  TITLE OF INVENTION: No. US20030152926Alel Methods of Diagnosis of Angiogenesis,
  TITLE OF INVENTION: Compositions and Methods of Screening for Angiogenesis
  TITLE OF INVENTION: Modulators
  FILE REFERENCE: 018501-000710US
  CURRENT APPLICATION NUMBER: US/10/021,660
  CURRENT FILING DATE: 2001-12-06
  PRIOR APPLICATION NUMBER: US/09/784,356
  PRIOR FILING DATE: 2001-02-14
  PRIOR APPLICATION NUMBER: US 09/637,977
  PRIOR FILING DATE: 2000-08-11
  NUMBER OF SEQ ID NOS: 135
  SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 123
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-021-660-123
 Query Match
                      89.9%; Score 1678.5; DB 4; Length 352;
 Best Local Similarity 90.1%; Pred. No. 1.7e-143;
 Matches 319; Conservative 19; Mismatches
                                         11; Indels
                                                        5; Gaps
                                                                  1:
Qу
          6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
            Db
          4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
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Qу
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Qγ
           Db
        124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV--
        186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
Qу
           179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
Db
        246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
Qу
           Db
        239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
        306 PILYAFLGAKEKSSAOHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSEHSS 359
Qy
           PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
Db
RESULT 13
US-10-014-322A-126
; Sequence 126, Application US/10014322A
; Publication No. US20030167129A1
 GENERAL INFORMATION:
  APPLICANT: Nestor, Jr., John
  APPLICANT: Wilson, Carol
  APPLICANT:
           Tan Hehir, Christina
  APPLICANT: Kates, Steven
  APPLICANT: Krstenansky, John
  TITLE OF INVENTION: Binding Compounds and Methods for Identifying Binding Compounds
  FILE REFERENCE: CNS-008
  CURRENT APPLICATION NUMBER: US/10/014,322A
  CURRENT FILING DATE: 2002-07-08
  PRIOR APPLICATION NUMBER: US 60/243,587
  PRIOR FILING DATE: 2000-10-27
  PRIOR APPLICATION NUMBER: US 09/813,651
  PRIOR FILING DATE: 2001-03-20
  PRIOR APPLICATION NUMBER: US 09/813,653
  PRIOR FILING DATE: 2001-03-20
  PRIOR APPLICATION NUMBER: US 09/813.448
  PRIOR FILING DATE: 2001-03-20
  NUMBER OF SEQ ID NOS: 126
  SOFTWARE: PatentIn version 3.0
 SEQ ID NO 126
   LENGTH: 352
  TYPE: PRT
   ORGANISM: Homo sapiens
US-10-014-322A-126
 Query Match
                     89.9%; Score 1678.5; DB 4;
 Best Local Similarity
                     90.1%; Pred. No. 1.7e-143;
 Matches 319; Conservative
                         19: Mismatches
                                       11:
                                            Indels
                                                       Gaps
Qy
         6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM
           Db
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Qν
           . Dp
         64 GYQKKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSS 123
Qу
        126 VLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDIS 185
           124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV--
Db
Qу
        186 QGDDRYICDRLYPDSLWMVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 245
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        179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
        246 KTTVILILAFFACWLPYYVGISIDSFILLGVIKQGCDFESIVHKWISITEALAFFHCCLN 305
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           239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
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306 PILYAFLGAKFKSSAQHALNSMSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 359
            Db
        299 PILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS 352
RESULT 14
US-10-239-423-79
; Sequence 79, Application US/10239423
 Publication No. US20030186889A1
: GENERAL INFORMATION:
  APPLICANT: FORSSMANN, Wolf-Georg; FORSSMANN, Ulf; ADERMANN, Knut;
  APPLICANT: HEITLAND, Aleksandra; SPODSBERG, Nikolaj
  TITLE OF INVENTION: Diagnostic Agent and Medicament for Examining the
  TITLE OF INVENTION: Cell Surface Proteome of Tumor and Inflammation Cells and
  TITLE OF INVENTION: for Treating Tumor Diseases and Inflammatory Diseases,
  TITLE OF INVENTION: Preferably with the Aid of Specific Chemokine
  TITLE OF INVENTION: Receptor Analysis and Chemokine Receptor/Ligand Interaction
  FILE REFERENCE: 022217us
  CURRENT APPLICATION NUMBER: US/10/239,423
  CURRENT FILING DATE: 2002-09-23
  PRIOR APPLICATION NUMBER: DE10016013.1
  PRIOR FILING DATE: 2000-03-31
  NUMBER OF SEQ ID NOS: 84
  SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 79
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Artificial Sequence
   OTHER INFORMATION: Description of Artificial Sequence:
   OTHER INFORMATION: Amino Acid Sequence for the Generation of Antibodies
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RESULT 15
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; Sequence 331, Application US/10170385
 Publication No. US20030203372A1
: GENERAL INFORMATION:
  APPLICANT: Ward, Neil Raymond
  APPLICANT: Mundy, Christopher Robert
  APPLICANT: Kan, On
  APPLICANT: Harris, Robert Alan
  APPLICANT:
            White, Jonathan
  APPLICANT:
            Binley, Katie Mary
  APPLICANT:
            Rayner, William Nigel
  APPLICANT:
            Naylor, Stuart
  APPLICANT:
            Kingsman, Susan Mary
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APPLICANT: Krige, David
  TITLE OF INVENTION: ANALYSIS METHOD
  FILE REFERENCE: 532682000100
  CURRENT APPLICATION NUMBER: US/10/170,385
  CURRENT FILING DATE: 2002-06-12
  PRIOR APPLICATION NUMBER: PCT/GB02/01662
  PRIOR FILING DATE: 2002-04-08
  PRIOR APPLICATION NUMBER: PCT/GB01/05458
  PRIOR FILING DATE: 2001-12-10
  NUMBER OF SEQ ID NOS: 549
  SOFTWARE: FastSEQ for Windows Version 4.0
; SEO ID NO 331
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Job time: 137.834 secs

start

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10785230 and Search Result 20070206_074037_us-10-785-230-3.rapbn.

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This page gives you Search Results detail for the Application 10785230 and Search Result 20070206_074037_us-10-785-230-3.rapbn.

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GenCore version 6.2 Copyright (c) 1993 - 2007 Biocceleration Ltd.

OM protein - protein search, using sw model

February 6, 2007, 14:25:40; Search time 41 Seconds

(without alignments)

1194.020 Million cell updates/sec

Title:

US-10-785-230-3

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched:

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Total number of hits satisfying chosen parameters:

571941

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100% Listing first 45 summaries

Database :

Published Applications AA New:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1867	100.0	359	7	US-11-437-734-2	Sequence 2, Appli
2	1834	98.2	352	7	US-11-437-734-8	Sequence 8, Appli
3	1822	97.6	355	6	US-10-540-898-918	Sequence 918, App
4	1744.5	93.4	349	6	US-10-219-051B-9076.	Sequence 9076, Ap
5	1744.5	93.4	349	6	US-10-219-051B-9080	Sequence 9080, Ap
6	1678.5	89.9	352	6	US-10-505-928-745	Sequence 745, App
7	1678.5	89.9	352	6	US-10-511-937-2486	Sequence 2486, Ap
8	1678.5	89.9	352	6	US-10-511-937-2935	Sequence 2935, Ap

9 1678.5 89.9 352 US-10-511-937-3010 Sequence 3010, Ap 1678.5 89.9 US-10-219-051B-9078 Sequence 9078, Ap 10 352 11 1678.5 89.9 352 US-10-219-051B-9082 Sequence 9082, Ap 7 1678.5 89.9 352 US-11-371-354-68409 Sequence 68409, A 1678.5 89.9 363 6 US-10-545-557-19 13 Sequence 19, Appl 1672.5 89.6 352 7 US-11-404-939-485 Sequence 485, App 14 15 1633.5 87.5 348 US-10-540-898-921 Sequence 921, App US-11-437-734-4 16 1210 64.8 230 7 Sequence 4, Appli Sequence 6, Appli 17 974 52.2 188 7 US-11-437-734-6 18 969.5 51.9 209 US-11-214-063A-688 Sequence 688, App 19 584 31.3 368 6 US-10-511-937-2505 Sequence 2505, Ap 20 584 368 US-10-511-937-2931 31.3 Sequence 2931, Ap 21 584 368 Sequence 59, Appl 31.3 US-11-302-678-59 7 22 584 31.3 368 US-11-371-354-63307 Sequence 63307, A 23 570.5 30.6 360 US-10-581-413-1 Sequence 1, Appli 24 562.5 30.1 361 6 US-10-669-920-374 Sequence 374, App 25 562 30.1 359 6 US-10-219-051B-13793 Sequence 13793, A 551 29.5 364 6 US-10-669-920-377 Sequence 377, App 27 544.5 29.2 360 6 US-10-533-519-1184 Sequence 1184, Ap 28 544.5 29.2 360 US-10-219-051B-13795 Sequence 13795, A 544.5 29.2 360 29 US-11-242-111-19 Sequence 19, Appl 30 29.2 360 7 544.5 US-11-371-354-67277 Sequence 67277, A Sequence 3, Appli 31 537.5 28.8 374 6 US-10-669-920-3 537.5 32 28.8 378 US-10-511-937-2404 Sequence 2404, Ap 33 537.5 28.8 389 6 US-10-545-557-23 Sequence 23, Appl 34 537.5 28.8 475 7 US-11-520-715-56811 Sequence 56811, A 35 534 7 28.6 357 US-11-371-354-66939 Sequence 66939, A 36 534 28.6 369 7 US-11-371-354-69405 Sequence 69405, A 37 533 28.5 355 6 US-10-516-032-8 Sequence 8, Appli 533 28.5 355 US-10-533-519-1109 Sequence 1109, Ap 39 533 28.5 355 US-11-371-354-56785 Sequence 56785, A 7 40 Sequence 2, Appli 532 28.5 367 US-11-392-789-2 41 528 28.3 369 7 US-11-404-939-481 Sequence 481, App 42 525.5 28.1 350 US-11-371-354-61621 Sequence 61621, A 7 43 522.5 28.0 350 US-11-371-354-68399 Sequence 68399, A 519.5 27.8 374 44 US-10-669-920-6 Sequence 6, Appli 512.5 27.5 325 US-10-669-920-237 Sequence 237, App

ALIGNMENTS

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RESULT 1
US-11-437-734-2
; Sequence 2, Application US/11437734
; Publication No. US20060211037A1
: GENERAL INFORMATION:
  APPLICANT: KISHIMOTO, Tadamitsu
  APPLICANT: NAGASAWA, Takashi
  APPLICANT: TACHIBANA, Kazunobu
  APPLICANT: IIZASA, Hisashi
  APPLICANT:
             YOSHIDA, Nobuaki
  APPLICANT: NAKAJIMA, Toshihiro
  APPLICANT: YOSHIE, Osamu
  TITLE OF INVENTION: NOVEL MOUSE CXC CHEMOKINE RECEPTOR
  FILE REFERENCE: 1422-386P
  CURRENT APPLICATION NUMBER: US/11/437,734
  CURRENT FILING DATE: 2006-05-22
  PRIOR APPLICATION NUMBER: US/09/367,052
  PRIOR FILING DATE: 1999-08-06
  NUMBER OF SEQ ID NOS: 22
  SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 2
   LENGTH: 359
   TYPE: PRT
   ORGANISM: Mus sp.
US-11-437-734-2
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Πh
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US-11-437-734-8
; Sequence 8, Application US/11437734
; Publication No. US20060211037A1
; GENERAL INFORMATION:
  APPLICANT: KISHIMOTO, Tadamitsu
  APPLICANT: NAGASAWA, Takashi
APPLICANT: TACHIBANA, Kazunobu
  APPLICANT: IIZASA, Hisashi
  APPLICANT:
           YOSHIDA, Nobuaki
  APPLICANT: NAKAJIMA, Toshihiro
  APPLICANT: YOSHIE, Osamu
  TITLE OF INVENTION: NOVEL MOUSE CXC CHEMOKINE RECEPTOR
  FILE REFERENCE: 1422-386P
  CURRENT APPLICATION NUMBER: US/11/437,734
  CURRENT FILING DATE: 2006-05-22
  PRIOR APPLICATION NUMBER: US/09/367,052
  PRIOR FILING DATE: 1999-08-06
  NUMBER OF SEQ ID NOS: 22
  SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 8
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Mus sp.
US-11-437-734-8
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RESULT 3
US-10-540-898-918
; Sequence 918, Application US/10540898
; Publication No. US20060166213A1
; GENERAL INFORMATION:
 APPLICANT: David W. Morris
  APPLICANT: Marc Malandro
  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
  FILE REFERENCE: CHIRO056-101 (PP023367.0003)
  CURRENT APPLICATION NUMBER: US/10/540,898
  CURRENT FILING DATE: 2005-06-27
  PRIOR APPLICATION NUMBER: US 10/330,773
  PRIOR FILING DATE: 2002-12-27
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                121 N--KSVLILAFISLDRYLAIVHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVS 178
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RESULT 4
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; Sequence 9076, Application US/10219051B
; Publication No. US20070015145A1
; GENERAL INFORMATION:
  APPLICANT: The General Hospital Corporation doing business as Massachusetts General
  APPLICANT: Hospital / Bayer AG
  TITLE OF INVENTION: Nucleotide sequences involved in pain
  FILE REFERENCE: LeA 35693 Foreign Countries
  CURRENT APPLICATION NUMBER: US/10/219,051B
  CURRENT FILING DATE: 2003-05-09
  PRIOR APPLICATION NUMBER: US 60/312,147
  PRIOR FILING DATE: 2001-08-14
  PRIOR APPLICATION NUMBER: US 60/346,382
  PRIOR FILING DATE: 2001-11-01
  PRIOR APPLICATION NUMBER: US 60/333,347
  PRIOR FILING DATE: 2001-11-26
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   PUBLICATION INFORMATION:
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   DATABASE ENTRY DATE: 2001-10-16
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; Sequence 9080, Application US/10219051B
; Publication No. US20070015145A1
: GENERAL INFORMATION:
  APPLICANT: The General Hospital Corporation doing business as Massachusetts General
  APPLICANT: Hospital / Bayer AG
  TITLE OF INVENTION: Nucleotide sequences involved in pain
  FILE REFERENCE: LeA 35693 Foreign Countries
  CURRENT APPLICATION NUMBER: US/10/219,051B
  CURRENT FILING DATE: 2003-05-09
  PRIOR APPLICATION NUMBER: US 60/312,147
  PRIOR FILING DATE: 2001-08-14
  PRIOR APPLICATION NUMBER: US 60/346,382
  PRIOR FILING DATE: 2001-11-01
  PRIOR APPLICATION NUMBER: US 60/333,347
  PRIOR FILING DATE: 2001-11-26
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  SOFTWARE: Perl script
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   LENGTH: 349
   TYPE: PRT
   ORGANISM: Rattus norvegicus
  PUBLICATION INFORMATION:
   DATABASE ACCESSION NUMBER: SWISS-Prot / 008565
   DATABASE ENTRY DATE: 2001-10-16
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RESULT 6
US-10-505-928-745
; Sequence 745, Application US/10505928
; Publication No. US20060088532A1
 GENERAL INFORMATION:
  APPLICANT: Ludwig Institute for Cancer Research et al.
  TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
  FILE REFERENCE: 28967/39178
  CURRENT APPLICATION NUMBER: US/10/505,928
  CURRENT FILING DATE: 2004-08-27
  PRIOR APPLICATION NUMBER: US 60/363,019
  PRIOR FILING DATE: 2002-03-07
  NUMBER OF SEQ ID NOS: 866
  SOFTWARE: PatentIn 3.2
.; SEO ID NO 745
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-505-928-745
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                                              Length 352;
  Ouerv Match
  Best Local Similarity 90.1%; Pred. No. 7.6e-151;
                          19; Mismatches
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            179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
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RESULT 7
US-10-511-937-2486
; Sequence 2486, Application US/10511937
  Publication No. US20060088836A1
  GENERAL INFORMATION:
  APPLICANT: EXPRESSION DIAGNOSTICS, INC.
   APPLICANT: Wohlgemuth, Jay
  APPLICANT: Fry, Kirk
  APPLICANT: Woodward, Robert
   APPLICANT: Ly, Ngoc
  APPLICANT: Prentice, James
   APPLICANT: Morris, MacDonald
   APPLICANT:
            Rosenberg, Steven
   TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
   TITLE OF INVENTION: AND MONITORING TRANSPLANT REJECTION
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FILE REFERENCE: 506612000104
  CURRENT APPLICATION NUMBER: US/10/511,937
  CURRENT FILING DATE: 2004-10-19
  PRIOR APPLICATION NUMBER: PCT/US2003/012946
  PRIOR FILING DATE: 2003-04-24
  PRIOR APPLICATION NUMBER: US 10/131,831
  PRIOR FILING DATE: 2002-04-24
  PRIOR APPLICATION NUMBER: US 10/325,899
  PRIOR FILING DATE: 2002-12-20
  NUMBER OF SEQ ID NOS: 3117
  SOFTWARE: PatentIn version 3.2
 SEO ID NO 2486
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-511-937-2486
                      89.9%; Score 1678.5; DB 6; Length 352;
 Query Match
 Best Local Similarity 90.1%; Pred. No. 7.6e-151;
                           19; Mismatches
                                                            Gaps
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 Matches 319; Conservative
                                           11;
                                                Indels
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            239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
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            Db
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RESULT 8
US-10-511-937-2935
; Sequence 2935, Application US/10511937
 Publication No. US20060088836A1
; GENERAL INFORMATION:
  APPLICANT: EXPRESSION DIAGNOSTICS, INC.
  APPLICANT: Wohlgemuth, Jay
  APPLICANT: Fry, Kirk
  APPLICANT: Woodward, Robert
  APPLICANT:
            Ly, Ngoc
  APPLICANT: Prentice, James
  APPLICANT: Morris, MacDonald
  APPLICANT: Rosenberg, Steven
  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
  TITLE OF INVENTION: AND MONITORING TRANSPLANT REJECTION
  FILE REFERENCE: 506612000104
  CURRENT APPLICATION NUMBER: US/10/511,937
  CURRENT FILING DATE: 2004-10-19
  PRIOR APPLICATION NUMBER: PCT/US2003/012946
  PRIOR FILING DATE: 2003-04-24
  PRIOR APPLICATION NUMBER: US 10/131,831
  PRIOR FILING DATE: 2002-04-24
  PRIOR APPLICATION NUMBER: US 10/325,899
  PRIOR FILING DATE: 2002-12-20
  NUMBER OF SEQ ID NOS: 3117
  SOFTWARE: PatentIn version 3.2
 SEQ ID NO 2935
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
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           239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
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RESULT 10
US-10-219-051B-9078
; Sequence 9078, Application US/10219051B
; Publication No. US20070015145A1
; GENERAL INFORMATION:
 APPLICANT: The General Hospital Corporation doing business as Massachusetts General
  APPLICANT: Hospital / Bayer AG
  TITLE OF INVENTION: Nucleotide sequences involved in pain
  FILE REFERENCE: LeA 35693 Foreign Countries
  CURRENT APPLICATION NUMBER: US/10/219,051B
  CURRENT FILING DATE: 2003-05-09
  PRIOR APPLICATION NUMBER: US 60/312,147
  PRIOR FILING DATE: 2001-08-14
  PRIOR APPLICATION NUMBER: US 60/346,382
  PRIOR FILING DATE: 2001-11-01
  PRIOR APPLICATION NUMBER: US 60/333,347
  PRIOR FILING DATE: 2001-11-26
  NUMBER OF SEQ ID NOS: 14715
  SOFTWARE: Perl script
; SEQ ID NO 9078
   LENGTH: 352
  TYPE: PRT
   ORGANISM: Homo sapiens
  PUBLICATION INFORMATION:
  DATABASE'ACCESSION NUMBER: SWISS-Prot / P30991
   DATABASE ENTRY DATE: 2002-06-15
US-10-219-051B-9078
                    89.9%; Score 1678.5; DB 6; Length 352;
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                                       11; Indels
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Οv
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        179 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 238
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Qν
           Db
        239 KTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFENTVHKWISITEALAFFHCCLN 298
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US-10-219-051B-9082
; Sequence 9082, Application US/10219051B
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Publication No. US20070015145A1
; GENERAL INFORMATION:
  APPLICANT: The General Hospital Corporation doing business as Massachusetts General
  APPLICANT: Hospital / Bayer AG
  TITLE OF INVENTION: Nucleotide sequences involved in pain
  FILE REFERENCE: LeA 35693 Foreign Countries
  CURRENT APPLICATION NUMBER: US/10/219,051B
  CURRENT FILING DATE: 2003-05-09
  PRIOR APPLICATION NUMBER: US 60/312,147
  PRIOR FILING DATE: 2001-08-14
  PRIOR APPLICATION NUMBER: US 60/346,382
  PRIOR FILING DATE: 2001-11-01
  PRIOR APPLICATION NUMBER: US 60/333,347
  PRIOR FILING DATE: 2001-11-26
  NUMBER OF SEQ ID NOS: 14715
  SOFTWARE: Perl script
; SEQ ID NO 9082
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
  PUBLICATION INFORMATION:
   DATABASE ACCESSION NUMBER: SWISS-Prot / P30991
   DATABASE ENTRY DATE: 2002-06-15
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RESULT 12
US-11-371-354-68409
; Sequence 68409, Application US/11371354
; Publication No. US20060275794A1
; GENERAL INFORMATION:
  APPLICANT: CARRINO, JOHN
  APPLICANT: LIANG, FENG
  TITLE OF INVENTION: COLLECTIONS OF MATCHED BIOLOGICAL REAGENTS AND METHODS FOR
  TITLE OF INVENTION: IDENTIFYING MATCHED REAGENTS
  FILE REFERENCE: INV-1005-UT2
  CURRENT APPLICATION NUMBER: US/11/371,354
  CURRENT FILING DATE: 2006-03-07
  PRIOR APPLICATION NUMBER: 60/673,045
  PRIOR FILING DATE: 2005-04-19
  PRIOR APPLICATION NUMBER: 60/665,199
  PRIOR FILING DATE: 2005-03-25
  PRIOR APPLICATION NUMBER: 60/665,200
  PRIOR FILING DATE: 2005-03-25
  PRIOR APPLICATION NUMBER: 60/659,493
  PRIOR FILING DATE: 2005-03-07
  PRIOR APPLICATION NUMBER: 60/659,492
  PRIOR FILING DATE: 2005-03-07
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PRIOR APPLICATION NUMBER: 60/953,586
  PRIOR FILING DATE: 2005-02-15
  PRIOR APPLICATION NUMBER: 60/651,390
  PRIOR FILING DATE: 2005-02-08
  NUMBER OF SEQ ID NOS: 78682
  SOFTWARE: PatentIn version 3.3
 SEQ ID NO 68409
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-11-371-354-68409
 Query Match
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 Best Local Similarity 90.1%; Pred. No. 7.6e-151;
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Db
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RESULT 13
US-10-545-557-19
; Sequence 19, Application US/10545557
; Publication No. US20060222654A1
; GENERAL INFORMATION:
  APPLICANT: ANOSYS
  TITLE OF INVENTION: METHODS AND COMPOUNDS FOR RAISING ANTIBODIES AND FOR SCREENING ANTIBODY
  TITLE OF INVENTION: REPERTOIRES
  FILE REFERENCE: 3665-158
  CURRENT APPLICATION NUMBER: US/10/545,557
  CURRENT FILING DATE: 2005-08-15
  PRIOR APPLICATION NUMBER: PCT/IB2004/000888
  PRIOR FILING DATE: 2004-02-13
  PRIOR APPLICATION NUMBER: US60/447,291
  PRIOR FILING DATE: 2003-02-14
  NUMBER OF SEQ ID NOS: 86
  SOFTWARE: PatentIn version 3.1
 SEQ ID NO 19
   LENGTH: 363
   TYPE: PRT
   ORGANISM: artificial sequence
   FEATURE:
   OTHER INFORMATION: CXCR4 + HA Tag
US-10-545-557-19
                     89.9%; Score 1678.5; DB 6;
 Best Local Similarity
                     90.1%; Pred. No. 7.9e-151;
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Db
RESULT 14
US-11-404-939-485
; Sequence 485, Application US/11404939
; Publication No. US20060183164A1
; GENERAL INFORMATION:
  APPLICANT: Lehmann-Bruinsma, Karin
  APPLICANT: Liaw, Chen W.
  APPLICANT: Lin, I-Lin
  TITLE OF INVENTION: Non-Endogenous, Constitutively Activated Known G
  TITLE OF INVENTION: Protein-Coupled Receptors
  FILE REFERENCE: AREN-207
  CURRENT APPLICATION NUMBER: US/11/404,939
  CURRENT FILING DATE: 2006-04-14
  PRIOR APPLICATION NUMBER: US/09/826,509
  PRIOR FILING DATE: 2001-04-05
  PRIOR APPLICATION NUMBER: 60/195,747
  PRIOR FILING DATE: 2000-04-07
  PRIOR APPLICATION NUMBER: 09/170,496
  PRIOR FILING DATE: 1998-10-13
  NUMBER OF SEQ ID NOS: 589
  SOFTWARE: PatentIn Version 2.1
: SEO ID NO 485
   LENGTH: 352
   TYPE: PRT
   ORGANISM: Homo sapiens
US-11-404-939-485
                     89.6%; Score 1672.5; DB 7; Length 352;
 Query Match
 Best Local Similarity 89.8%; Pred. No. 2.8e-150;
 Matches 318; Conservative
                         19; Mismatches
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                                            Indels
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         6 VSIYTSDNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVM 65
           4 ISIYTSDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVILVM 63
Db
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           124 VLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANV----S 178
Db
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Db
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RESULT 15

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US-10-540-898-921
; Sequence 921, Application US/10540898
 Publication No. US20060166213A1
; GENERAL INFORMATION:
  APPLICANT: David W. Morris
  APPLICANT: Marc Malandro
  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
  FILE REFERENCE: CHIRO056-101 (PP023367.0003)
  CURRENT APPLICATION NUMBER: US/10/540,898
  CURRENT FILING DATE: 2005-06-27
  PRIOR APPLICATION NUMBER: US 10/330,773
  PRIOR FILING DATE: 2002-12-27
  NUMBER OF SEQ ID NOS: 981
  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 921
   LENGTH: 348
   TYPE: PRT
   ORGANISM: Homo sapiens
US-10-540-898-921
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 Query Match
 Best Local Similarity 88.7%; Pred. No. 1.4e-146;
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 Matches 314; Conservative
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           177 EADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGHQKRKAL 236
Db
Qу
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Db
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